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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16670109
Filing Date	2019-10-31
First Named Inventor	KALLAI; Christopher
Art Unit	
Examiner Name	TBD
Attorney Docket Number	11-0401-CON1019A

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	1	"Welcome. You're watching Apple TV." Apple TV 1st Generation Setup Guide, 8 April 2008 Retrieved 10/14/14, 40 pages.	
	2	"Welcome. You're watching Apple TV." Apple TV 2nd Generation Setup Guide, 10 March 2011 Retrieved 10/16/14, 36 pages.	
	3	"Welcome. You're watching Apple TV." Apple TV 3rd Generation Setup Guide, 16 March 2012 Retrieved 10/16/14, 36 pages.	
	4	WI-DK Release 2 WaveLan Embedded Drivers for VxWorks and Linux, AVAGO0056, Agere Systems, July 2003, 2 pages.	
	5	WI-DK Release 2 WaveLan END Reference Driver for VxWorks, AVAGO0044, Agere Systems, July 2003, 4 pages.	
	6	WI-DK Release 2 WaveLan LKM Reference Drivers for Linux, AVAGO0048, Agere Systems, July 2003, 4 pages.	
	7	Windows Media Connect Device Compatibility Specification (April 12, 2004) (16 pages).	
	8	WPA Reauthentication Rates, AVAGO0063, Agere Systems, February 2004, 3 pages.	
	9	Yamaha DME 32 manual: copyright 2001.	
	10	Yamaha DME 64 Owner's Manual; copyright 2004, 80 pages.	
	11	Yamaha DME Designer 3.5 setup manual guide; copyright 2004, 16 pages.	

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	12	Yamaha DME Designer 3.5 User Manual; Copyright 2004, 507 pages.	
	13	Yamaha DME Designer software manual: Copyright 2004, 482 pages.	
	14	"Symantec pcAnywhere User's Guide," v 10.5.1, 1995-2002, 154 pages.	
	15	"Systemline Modular Installation Guide, Multiroom System," Systemline, 2003, pp. 1-22.	
	16	"ZR-8630AV MultiZone Audio/Video Receiver, Installation and Operation Guide," Niles Audio Corporation, 2003, 86 pages.	
	17	ZX135: Installation Manual,LA Audio, April 2003, 44 pages.	

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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	1	Non-Final Office Action mailed on 17 December 2015, issued in connection with U.S. Patent Application No. 13/458558, filed on 27 April 2012, 10 pages.	
	2	Non-Final Office Action mailed on 17 July 2019, issued in connection with U.S. Patent Application No. 15/130919, filed on 15 April 2016, 15 pages.	
	3	Non-Final Office Action mailed on 17 November 2014, issued in connection with U.S. Patent Application No. 13/864247, filed on 17 April 2013, 11 pages.	
	4	Non-Final Office Action mailed on 17 November 2016, issued in connection with U.S. Patent Application No. 14/620937, filed on 12 February 2015, 14 pages.	
	5	Non-Final Office Action mailed on 18 February 2009, issued in connection with U.S. Patent Application No. 10/861653, filed on 05 June 2004, 18 pages.	
	6	Non-Final Office Action mailed on 18 November 2014, issued in connection with U.S. Patent Application No. 13/435739, filed on 30 March 2012, 10 pages.	
	7	Non-Final Office Action mailed on 19 January 2018, issued in connection with U.S. Patent Application No. 14/629937, filed on 24 February 2015, 14 pages.	
	8	Non-Final Office Action mailed on 19 June 2015, issued in connection with U.S. Patent Application No. 13/533105 filed on 26 June 2012, 38 pages.	
	9	Non-Final Office Action mailed on 19 November 2014, issued in connection with U.S. Patent Application No. 13/848921, filed on 22 March 2013, 9 pages.	
	10	Non-Final Office Action mailed on 20 August 2009, issued in connection with U.S. Patent Application No. 11/906702, filed on 02 October 2007, 27 pages.	
	11	Non-Final Office Action mailed on 20 October 2016, issued in connection with U.S. Patent Application No. 14/563515, filed on 08 December 2014, 10 pages.	

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	12	Non-Final Office Action mailed on 21 September 2016, issued in connection with U.S. Patent Application No. 15/080591, filed on 25 March 2016, 9 pages.	
	13	Non-Final Office Action mailed on 21 September 2016, issued in connection with U.S. Patent Application No. 15/080716, filed on 25 March 2016, 8 pages.	
	14	Non-Final Office Action mailed on 21 September 2016, issued in connection with U.S. Patent Application No. 15/088283, filed on 01 April 2016, 9 pages.	
	15	Non-Final Office Action mailed on 21 September 2016, issued in connection with U.S. Patent Application No. 15/088532, filed on 01 April 2016, 9 pages.	
	16	Non-Final Office Action mailed on 22 August 2018, issued in connection with U.S. Patent Application No. 15/487686, filed on 14 April 2017, 13 pages.	
	17	Non-Final Office Action mailed on 22 December 2014, issued in connection with U.S. Patent Application No. 13/458558, filed on 27 April 2012, 11 pages.	
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	20	Non-Final Office Action mailed on 23 June 2015, issued in connection with U.S. Patent Application No. 13/705176, filed on 05 December 2012, 30 pages.	
	21	Non-Final Office Action mailed on 23 March 2015, issued in connection with U.S. Patent Application No. 14/299847, filed on 09 June 2014, 14 pages.	
	22	Non-Final Office Action mailed on 23 October 2014, issued in connection with U.S. Patent Application No. 13/848904, filed on 22 March 2013, 11 pages.	

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	23	Non-Final Office Action mailed on 23 October 2014, issued in connection with U.S. Patent Application No. 13/864251, filed on 17 April 2013, 11 pages.	
	24	Non-Final Office Action mailed on 23 October 2014, issued in connection with U.S. Patent Application No. 13/888203, filed on 06 May 2013, 9 pages.	
	25	Non-Final Office Action mailed on 23 September 2014, issued in connection with U.S. Patent Application No. 13/630565, filed on 28 September 2012, 7 pages.	
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	29	Non-Final Office Action mailed on 25 April 2018, issued in connection with U.S. Patent Application No. 15/130919 filed on 15 April 2016, 13 pages.	
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	32	Non-Final Office Action mailed on 27 January 2015, issued in connection with U.S. Patent Application No. 14/465457, filed on 21 August 2014, 11 pages.	
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	35	Non-Final Office Action mailed on 27 September 2013, issued in connection with U.S. Patent Application No. 13/013740, filed on 25 January 2011, 12 pages.	
	36	Non-Final Office Action mailed on 27 September 2016, issued in connection with U.S. Patent Application No. 15/228685, filed on 04 August 2016, 8 pages.	
	37	Non-Final Office Action mailed on 27 September 2019, issued in connection with U.S. Patent Application No. 15/405931, filed on 13 January 2017, 13 pages.	
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	40	Non-Final Office Action mailed on 28 December 2016, issued in connection with U.S. Patent Application No. 15/343000, filed on 03 November 2016, 11 pages.	
	41	Non-Final Office Action mailed on 29 January 2016, issued in connection with U.S. Patent Application No. 14/937523, filed on 10 November 2015, 10 pages.	
	42	Non-Final Office Action mailed on 29 June 2016, issued in connection with U.S. Patent Application No. 14/629937, filed on 24 February 2015, 12 pages.	
	43	Non-Final Office Action mailed on 30 April 2012, issued in connection with U.S. Patent Application No. 13/204511, filed on 05 August 2011, 16 pages.	
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	45	Non-Final Office Action mailed on 30 January 2015, issued in connection with U.S. Patent Application No. 14/504812, filed on 02 October 2014, 13 pages.	
	46	Non-Final Office Action mailed on 30 November 2016, issued in connection with U.S. Patent Application No. 15/243186, filed on 22 August 2016, 12 pages.	
	47	Non-Final Office Action mailed on 30 October 2018, issued in connection with U.S. Patent Application No. 16/128443, filed on 11 September 2018, 21 pages.	
	48	Non-Final Office Action mailed on 30 September 2016, issued in connection with U.S. Patent Application No. 13/864249, filed on 17 April 2013, 12 pages.	
	49	Non-Final Office Action mailed on 31 October 2016, issued in connection with U.S. Patent Application No. 14/806070, filed on 22 July 2015, 11 pages.	
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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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Application Number	16670109
Filing Date	2019-10-31
First Named Inventor	KALLAI; Christopher
Art Unit	
Examiner Name	TBD
Attorney Docket Number	11-0401-CON1019A

U.S.PATENTS Remove

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	First Named Inventor	KALLAI; Christopher
	Art Unit	
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	Art Unit	
	Examiner Name	TBD
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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
	Examiner Name	TBD
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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
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	Filing Date	2019-10-31
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	Filing Date	2019-10-31
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	Application Number	16670109
	Filing Date	2019-10-31
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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
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	Attorney Docket Number	11-0401-CON1019A

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Application Number	16670109
Filing Date	2019-10-31
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Art Unit	
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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
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	Filing Date	2019-10-31
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	Filing Date	2019-10-31
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	46	BENSLIMANE Abderrahim, "A Multimedia Synchronization Protocol for Multicast Groups," Proceedings of the 26th Euromicro Conference, 2000, pp. 456-463, Vol. 1.	
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	48	BLAKOWSKI G. et al., "A Media Synchronization Survey: Reference Model, Specification, and Case Studies," January 1996, pp. 5-35, Vol. 14, No. 1.	
	49	Bluetooth. "Specification of the Bluetooth System: The ad hoc SCATTERNET for affordable and highly functional wireless connectivity," Core, Version 1.0 A, 26 July 1999, 1068 pages.	
	50	Bluetooth. "Specification of the Bluetooth System: Wireless connections made easy," Core, Version 1.0 B, 1 December 1999, 1076 pages.	

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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☒ A certification statement is not submitted herewith.

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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
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	1	Notice of Allowance mailed on 16 June 2009, issued in connection with U.S. Patent Application No. 10/861653, filed on 05 June 2004, 11 pages.	
	2	Notice of Allowance mailed on 16 May 2017, issued in connection with U.S. Patent Application No. 15/228685, filed on 04 August 2016, 10 pages.	
	3	Notice of Allowance mailed on 17 July 2015, issued in connection with U.S. Patent Application No. 13/864251, filed on 17 April 2013, 20 pages.	
	4	Notice of Allowance mailed on 19 August 2016, issued in connection with U.S. Patent Application No. 14/619813, filed on 11 February 2015, 9 pages.	
	5	Notice of Allowance mailed on 19 May 2015, issued in connection with U.S. Patent Application No. 13/907666, filed on 31 May 2013, 7 pages.	
	6	Notice of Allowance mailed on 19 October 2016, issued in connection with U.S. Patent Application No. 14/290493, filed on 29 May 2014, 14 pages.	
	7	Notice of Allowance mailed on 20 January 2016, issued in connection with U.S. Patent Application No. 14/465457, filed on 21 August 2014, 10 pages.	
	8	Notice of Allowance mailed on 21 October 2015, issued in connection with U.S. Patent Application No. 14/174244, filed on 06 February, 2014, 5 pages.	
	9	Notice of Allowance mailed on 21 October 2015, issued in connection with U.S. Patent Application No. 14/174253, filed on 06 February 2014, 6 pages.	
	10	Notice of Allowance mailed on 21 September 2015, issued in connection with U.S. Patent Application No. 13/297000, filed on 15 November 2011, 11 pages.	
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	34	Notice of Allowance mailed on 7 December 2018, issued in connection with U.S. Patent Application No. 15/228812, filed on 4 August 2016, 7 pages.	
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	36	Notice of Intent to Issue Re-Examination Certificate mailed on 24 March 2017, issued in connection with U.S. Patent Application No. 90/013859, filed on 04 November 2016, 10 pages.	
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	39	Palm, Inc., "Handbook for the Palm VII Handheld," May 2000, 311 pages.	
	40	Parasound Zpre2 Zone Preamplifier with PTZI Remote Control, 2005, 16 pages.	
	41	PARK et al., "Group Synchronization in MultiCast Media Communications," Proceedings of the 5th Research on Multicast Technology Workshop, 2003, 5 pages.	
	42	PILLAI et al., "A Method to Improve the Robustness of MPEG Video Applications over Wireless Networks," Kent Ridge Digital Labs, 2000, 15 pages.	
	43	Polycom Conference Composer User Guide, copyright 2001, 29 pages.	
	44	POSTEL, J., "User Datagram Protocol," RFC: 768, USC/Information Sciences Institute, August 1980, 3 pages.	

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	45	Preinterview First Office Action mailed on 08 June 2016, issued in connection with U.S. Patent Application No. 14/619813, filed on 11 February 2015, 4 pages.	
	46	Pre-Interview First Office Action mailed on 10 March 2015, issued in connection with U.S. Patent Application No. 14/505027, filed on 02 October 2014, 4 pages.	
	47	Presentations at WinHEC 2000, May 2000, 138 pages.	
	48	PRISMIQ, Inc., "PRISMIQ Media Player User Guide," 2003, 44 pages.	
	49	Proficient Audio Systems M6 Quick Start Guide, 2011, 5 pages.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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	1	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Reply in Support of Partial Motion for Judgment on the Pleadings, filed June 10, 2016, 15 pages.	
	2	Sonos, Inc. v. D&M Holdings Inc. et al., Exhibit A: Defendants' First Amended Answer to Plaintiffs' Third Amended Complaint, provided August 1, 2016, 26 pages.	
	3	Sonos, Inc. v. D&M Holdings Inc. et al., Exhibit A: Defendants' Second Amended Answer to Plaintiffs' Third Amended Complaint, filed September 9, 2016, 43 pages.	
	4	Sonos, Inc. v. D&M Holdings Inc. et al., Exhibit A: Defendants' Second Amended Answer to Plaintiffs' Third Amended Complaint, provided September 9, 2016, 88 pages.	
	5	Sonos, Inc. v. D&M Holdings Inc. et al., First Amended Complaint for Patent Infringement, filed December 17, 2014, 26 pages.	
	6	Sonos, Inc. v. D&M Holdings Inc. et al., Joint Claim Construction Chart, Volume 1 of 3 with Exhibits A-O, filed August 17, 2016, 30 pages.	
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	12	Sonos, Inc. v. D&M Holdings Inc. et al., Second Amended Complaint for Patent Infringement, filed February 27, 2015, 49 pages.	
	13	Sonos, Inc. v. D&M Holdings Inc. et al., Sonos's Motion to Strike Defendants' New Amended Answer Submitted with their Reply Brief, provided September 15, 2016, 10 pages.	
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	21	Sonos, Inc. v. D&M Holdings Inc. et al., Declaration of Steven C. Visser, executed September 9, 2016, 40 pages.	
	22	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 1: Defendants' Invalidity Contentions for U.S. Patent No. 7,571,014 filed September 16, 2016, 270 pages.	

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	24	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 11: Defendants' Invalidity Contentions for U.S. Design Patent No. D559,197 filed September 27, 2016, 52 pages.	
	25	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 2: Defendants' Invalidity Contentions for U.S. Patent No. 8,588,949 filed September 27, 2016, 224 pages.	
	26	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 3: Defendants' Invalidity Contentions for U.S. Patent No. 8,843,224 filed September 27, 2016, 147 pages.	
	27	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 4: Defendants' Invalidity Contentions for U.S. Patent No. 8,938,312 filed September 27, 2016, 229 pages.	
	28	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 5: Defendants' Invalidity Contentions for U.S. Patent No. 8,938,637 filed September 27, 2016, 213 pages.	
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	45	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Preliminary Identification of Prior Art References, provided July 29, 2016, 5 pages.	
	46	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Brief in Support of their Motion for Leave to Amend their Answer to Add the Defense of Inequitable Conduct, provided October 12, 2016, 24 pages.	
	47	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Opposition to Sonos's Motion to Strike Defendants' New Amended Answer Submitted with their Reply, provided October 3, 2016, 15 pages.	
	48	Sonos, Inc. v. D&M Holdings Inc. et al., Exhibit A: Defendants' Second Amended Answer to Plaintiffs' Third Amended Complaint, provided October 12, 2016, 43 pages.	
	49	Sonos, Inc. v. D&M Holdings Inc. et al., Exhibit B: Defendants' Second Amended Answer to Plaintiffs' Third Amended Complaint, provided October 12, 2016, 43 pages.	
	50	Sonos, Inc. v. D&M Holdings Inc. et al., Opening Brief in Support of Defendants' Motion for Leave to Amend Their Answer to Add the Defense of Inequitable Conduct, provided August 1, 2016, 11 pages.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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Application Number	16670109
Filing Date	2019-10-31
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Art Unit	
Examiner Name	TBD
Attorney Docket Number	11-0401-CON1019A

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	1	Non-Final Office Action mailed on 5 July 2019, issued in connection with U.S. Patent Application No. 16/383565, filed on 12 April 2019, 11 pages.	
	2	North American MPEG-2 Information, "The MPEG-2 Transport Stream," Retrieved from the Internet: URL: http://www.coolstf.com/mpeg/#ts, 2006, pp. 1-5.	
	3	Notice of Allowability mailed on 18 April 2013, issued in connection with U.S. Patent Application No. 11/853790, filed on 11 September 2007, 4 pages.	
	4	Notice of Allowance mailed 31 January 2013, issued in connection with U.S. Patent Application No. 13/298090, filed on 16 November 2011, 19 pages.	
	5	Notice of Allowance mailed on 01 December 2016, issued in connection with U.S. Patent Application No. 15/088283, filed on 01 April 2016, 9 pages.	
	6	Notice of Allowance mailed on 01 June 2017, issued in connection with U.S. Patent Application No. 14/808397, filed on 24 July 2015, 5 pages.	
	7	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/088532, filed on 01 April 2016, 9 pages.	
	8	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/088678, filed on 01 April 2016, 9 pages.	
	9	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/089758, filed on 04 April 2016, 9 pages.	
	10	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/155149, filed on 16 May 2016, 9 pages.	
	11	Notice of Allowance mailed on 02 July 2015, issued in connection with U.S. Patent Application No. 13/848904, filed on 22 March 2013, 17 pages.	

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	12	Notice of Allowance mailed on 02 July 2015, issued in connection with U.S. Patent Application No. 13/888203, filed on 06 May 2013, 19 pages.	
	13	Notice of Allowance mailed on 02 July 2015, issued in connection with U.S. Patent Application No. 14/184935, filed on 20 February 2014, 23 pages.	
	14	Notice of Allowance mailed on 02 June 2014, issued in connection with U.S. Patent Application No. 13/083499, filed on 08 April 2011, 5 pages.	
	15	Notice of Allowance mailed on 03 September 2015, issued in connection with U.S. Patent Application No. 13/705174, filed on 05 December 2012, 4 pages.	
	16	Notice of Allowance mailed on 04 August 2015, issued in connection with U.S. Patent Application No. 14/516867, filed on 17 October 2014, 13 pages.	
	17	Notice of Allowance mailed on 04 November 2019, issued in connection with U.S. Patent Application No. 16/422160, filed on 24 May 2019, 13 pages.	
	18	Notice of Allowance mailed on 05 December 2014, issued in connection with U.S. Patent Application No. 14/256434, filed 18 April 2014, 7 pages.	
	19	Notice of Allowance mailed on 05 October 2012, issued in connection with U.S. Patent Application No. 13/204511, filed on 05 August 2011, 11 pages.	
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	21	Notice of Allowance mailed on 06 May 2011, issued in connection with U.S. Patent Application No. 11/801468, filed 09 May 2007, 10 pages.	
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	23	Notice of Allowance mailed on 06 September 2016, issued in connection with U.S. Patent Application No. 15/134767, filed on 21 April 2016, 7 pages.	
	24	Notice of Allowance mailed on 07 April 2016, issued in connection with U.S. Patent Application No. 13/533105, filed on 26 June 2012, 40 pages.	
	25	Notice of Allowance mailed on 07 October 2015, issued in connection with U.S. Patent Application No. 14/184526, filed on 19 February 2014, 7 pages.	
	26	Notice of Allowance mailed on 09 October 2015, issued in connection with U.S. Patent Application No. 13/435739, filed on 30 March 2012, 4 pages.	
	27	Notice of Allowance mailed on 09 September 2016, issued in connection with U.S. Patent Application No. 15/134761, filed on 21 April 2016, 7 pages.	
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	29	Notice of Allowance mailed on 1 March 2018, issued in connection with U.S. Patent Application No. 14/619813, filed on 11 February 2015, 7 pages.	
	30	Notice of Allowance mailed on 10 August 2015, issued in connection with U.S. Patent Application No. 13/848904, filed on 22 March 2013, 9 pages.	
	31	Notice of Allowance mailed on 10 July 2015, issued in connection with U.S. Patent Application No. 13/013740, filed on 25 January 2011, 7 pages.	
	32	Notice of Allowance mailed on 10 June 2019, issued in connection with U.S. Patent Application No. 16/128443, filed on 11 September 2018, 10 pages.	
	33	Notice of Allowance mailed on 10 March 2016, issued in connection with U.S. Patent Application No. 14/937523, filed on 10 November 2015, 5 pages.	

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	34	Notice of Allowance mailed on 10 November 2011, issued in connection with U.S. Patent Application No. 11/906702, filed on 02 October 2007, 17 pages.	
	35	Notice of Allowance mailed on 10 September 2014, issued in connection with U.S. Patent Application No. 13/892230, filed on 10 May 2013, 5 pages.	
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	39	Notice of Allowance mailed on 11 July 2017, issued in connection with U.S. Patent Application No. 14/825961, filed on 13 August 2015, 5 pages.	
	40	Notice of Allowance mailed on 12 August 2015, issued in connection with U.S. Patent Application No. 13/435739, filed on 30 March 2012, 27 pages.	
	41	Notice of Allowance mailed on 12 June 2014, issued in connection with U.S. Patent Application No. 13/896829, filed on 17 May 2013, 5 pages.	
	42	Notice of Allowance mailed on 13 July 2015, issued in connection with U.S. Patent Application No. 14/184526, filed on 19 February 2014, 22 pages.	
	43	Notice of Allowance mailed on 13 May 2015, issued in connection with U.S. Patent Application No. 14/299847, filed on 09 June 2014, 10 pages.	
	44	Notice of Allowance mailed on 13 November 2013, issued in connection with U.S. Patent Application No. 13/724048, filed 21 December 2012, 7 pages.	

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	45	Notice of Allowance mailed on 13 November 2017, issued in connection with U.S. Patent Application No. 14/563,515, filed on 08 December 2014, 11 pages.	
	46	Notice of Allowance mailed on 13 October 2015, issued in connection with U.S. Patent Application No. 13/864251, filed on 17 April 2013, 7 pages.	
	47	Notice of Allowance mailed on 14 June 2012, issued in connection with U.S. Patent Application No. 12/035112, filed on 21 February 2008, 9 pages.	
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	49	Notice of Allowance mailed on 15 July 2015, issued in connection with U.S. Patent Application No. 13/705174, filed on 05 December 2012, 18 pages.	
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Bibliographic Data

Application No: 16/670,109

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☐ No ☐ Met After Allowance

Verified and Acknowledged: /PAUL C MCCORD/ Examiner's Signature | Initials

Title: Playback Device Pairing

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/31/2019 RULE	700	2654	11-0401-CON1019A /15-1432

APPLICANTS

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Michael Darrell Andrew Ericson Santa Barbara, CA, UNITED STATES

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CONTINUING DATA

This application is a CON of 16128443 09/11/2018 PAT 10555082

16128443 is a CON of 14629937 02/24/2015 PAT 10136218

14629937 is a CON of 14299847 06/09/2014 PAT 9219959

14299847 is a CON of 13083499 04/08/2011 PAT 8788080

13083499 is a CIP of 13013740 01/25/2011 PAT 9202509

13013740 is a CIP of 11853790 09/11/2007 PAT 8483853

11853790 has PRO of 60825407 09/12/2006

FOREIGN APPLICATIONS

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McDonnell Boehnen Hulbert & Berghoff LLP

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300 South Wacker Drive
Chicago, IL 60606
UNITED STATES

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$5,860

Doc code: IDS
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	1	5197099		1993-03-23	HIRASAWA; Kazuo	
	2	5642171		1997-06-24	BAUMGARTNER; Donn M. et al.	
	3	6119239		2000-09-12	FUJII; Kazuo	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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	1	Sonos, Inc. v. Implicit, LLC: Declaration of Roman Chertov in Support of the Inter Partes Review of U.S. Patent No. 7,391,791 dated March 9, 2018, 92 pages.	
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	Attorney Docket Number	11-0401-CON1019A

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	Attorney Docket Number	11-0401-CON1019A

CERTIFICATION STATEMENT

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That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Attorney Docket Number	11-0401-CON1019A

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	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
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	Application Number	16670109
	Filing Date	2019-10-31
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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
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	Attorney Docket Number	11-0401-CON1019A

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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
	Examiner Name	TBD
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	Application Number	16670109
	Filing Date	2019-10-31
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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Application Number	16670109
	Filing Date	2019-10-31
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16670109
Filing Date	2019-10-31
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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	Attorney Docket Number	11-0401-CON1019A

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	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Attorney Docket Number	11-0401-CON1019A

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That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
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	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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See attached certification statement.

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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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	1	Non-Final Office Action mailed 21 June 2011, issued in connection with U.S. Patent Application No. 10/816217, filed 01 April 2004, 13 pages.	
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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3	"20070047481"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:14
S2	306	"7136709" "20050254505" "20060221260" "5909183" "20030009567"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:15
S3	2	".20060221260"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:16
S4	2	"20060221260"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:16
S5	206	"6604023" "5924486"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:17
S6	509	S2 S5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:17
S7	799	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:18
S8	306	"7136709" "20050254505" "20060221260" "5909183" "20030009567"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:19
S9	206	"6604023" "5924486"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:19
S10	509	S8 S9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:19

S11	0	S10 AND S7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:19
S12	10	("7136709" "20050254505" "20060221260" "5909183" "20030009567").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:19
S13	772	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) AND GROUP$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:21
S14	2	"20080077261"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:22
S15	4	("6604023" "5924486").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 09:24
S16	7	("20070094035" "20030135374" "5222189").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 10:47
S17	183	log$3compand$6 (log logar$6) near2 compand$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 11:34
S18	3	S17 and 700/94.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 11:34
S19	11	S17 and 704/500-502.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/01 11:35
S20	108	("8234395" | "20030020763" | "8239559" | "20020002039" | "20040117044" | "20070288610" | "20080077261" | "6778869" | "7539551" | "20050021470" | "20060041616" | "20080025535" | "8189824" | "20040223622" | "20050131558" | "7558224" | "7761176" | "7962482" | "20020124097" | "20040131192" | "20030167335" | "20060149402" | "20050289224" | "20070142022" | "7668990" | "20040015252" | "20030177889" | "20050002535" | "20020003548" | "7218708" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/02 09:49

		"8045952" | "20040010727" | "20080045140" | "7187947" | "7742832" | "7805210" | "8290603" | "20070142944" | "20080144861" | "5182552" | "6631410" | "7130608" | "20040225389" | "20080152165" | "7571014" | "7643894" | "20020072816" | "5946343" | "20050144284" | "20070189544").PN.				
S21	7	"892230".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/02 09:51
S22	2	"20130253679"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/02 09:51
S23	19	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) AND GROUP$5 and 700/94.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 09:57
S24	108	("8234395" | "20030020763" | "8239559" | "20020002039" | "20040117044" | "20070288610" | "20080077261" | "6778869" | "7539551" | "20050021470" | "20060041616" | "20080025535" | "8189824" | "20040223622" | "20050131558" | "7558224" | "7761176" | "7962482" | "20020124097" | "20040131192" | "20030167335" | "20060149402" | "20050289224" | "20070142022" | "7668990" | "20040015252" | "20030177889" | "20050002535" | "20020003548" | "7218708" | "8045952" | "20040010727" | "20080045140" | "7187947" | "7742832" | "7805210" | "8290603" | "20070142944" | "20080144861" | "5182552" | "6631410" | "7130608" | "20040225389" | "20080152165" | "7571014" | "7643894" | "20020072816" | "5946343" | "20050144284" | "20070189544").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 09:58
S25	108	S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 09:58
S26	1	S23 and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 09:58
S27	2	zone with play$4 and play$5 with different near3 (song media	US-PGPUB;	OR	ON	2014/05/03 09:58

		content) and (sync synchron$8) AND GROUP$5 and S24	USPAT; EPO; JPO; DERWENT			
S28	2	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 09:58
S29	15	"1098476" "20100299639"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:05
S30	12	"1098476"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:06
S31	6	("6587127" | "20100299639" | "20120266231").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:06
S32	2	"20130174204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:07
S33	10	("20090228919" | "20120117586" | "20120304233" | "20080134256" | "20030198257").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:09
S34	4	"8421746"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:10
S35	770	"6400996"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:18
S36	3	"6400996".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:18
S37	3	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) And S35	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:18
S38	3	"20080066094"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:19
S39	3	"20100299639"	US-PGPUB;	OR	ON	2014/05/03 10:21

			USPAT; EPO; JPO; DERWENT			
S40	3	"20110004716"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:21
S41	3	"20100052843"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:22
S42	5	("6163510" "6310839" "6377519" "6414914").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:23
S43	5	("6163510" "6310839" "6377519" "6414914").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:37
S44	175	plural near3 play$5 near4 (media song title)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:42
S45	0	plural near3 play$5 near4 (media song title) and S35	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:42
S46	0	plural near3 play$5 near4 (media song title) and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:42
S47	0	plural near3 play$5 near4 (media song title) and S29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:43
S48	0	plural$4 near3 play$5 near4 (media song title) and S29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:43
S49	3523	plural$4 near3 play$5 near4 (media song title)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:43
S50	2	S49 and S35	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:43
S51	4	S49 and S24	US-PGPUB;	OR	ON	2014/05/03 10:43

			USPAT; EPO; JPO; DERWENT			
S52	6	S50 S51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:43
S53	4467	second near3 play$5 near4 (media song title)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 10:51
S54	13	S53 and S35	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:00
S55	3	S53 and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:00
S56	16	S54 S55	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:00
S57	0	S54 and S55	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:06
S58	2	S52 and S56	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:06
S59	7	"892230".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:22
S60	771	g06f17/30772.cpc.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:23
S61	186	g06f17/30772.cpc. and (S49 S53)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:23
S62	35	g06f17/30772.cpc. and (S49 and S53)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:23
S63	89	wijeratne.in.	US-PGPUB;	OR	ON	2014/05/03 11:47

			USPAT; EPO; JPO; DERWENT			
S64	2	wijeratne.in. and mall	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:48
S65	23	("7302468").URPN.	USPAT	OR	ON	2014/05/03 11:48
S66	18	("7302468").URPN. and (zone scene config$8)	USPAT	OR	ON	2014/05/03 11:49
S67	7	omnidrive$4	USPAT	OR	ON	2014/05/03 11:55
S68	10	omnidrive$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:55
S69	0	rane with hal'	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:59
S70	0	rane with hal	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:59
S71	16	rane with hal$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 11:59
S72	0	rane with driverack	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:00
S73	0	rane with driverack$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:00
S74	0	rane and driverack$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:00
S75	995	rane and hal$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:00
S76	87	rane and hal$4 and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:00

S77	0	rane same hal$4 and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:01
S78	0	rane.as. and (drag adj net$4 drag$3net$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:05
S79	21	(US-20070047481-$ or US-20050254505-$ or US-20080077261-$ or US-20090228919-$ or US-20030198257-$ or US-20130187767-$ or US-20080066094-$ or US-20100299639-$ or US-20100052843-$ or US-20080025535-$ or US-20020002039-$).did. or (US-5909183-$ or US-6604023-$ or US-6587127-$ or US-8700730-$ or US-8571237-$ or US-7849181-$ or US-7626952-$ or US-6889207-$ or US-7302468-$).did. or (EP-1098476-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2014/05/03 12:16
S80	20	S79 and (zone group$4 scene config$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:16
S81	10	S79 and (zone group$4 scene config$9) with display$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:17
S82	14	S79 and (zone group$4 scene config$9) with (manag$6 display$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:18
S83	5	S79 and (discover$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/03 12:23
S84	183	log$3compand$6 (log logar$6) near2 compand$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/16 12:08
S85	3	S84 and 700/94.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/16 12:08
S86	0	S85 and 704/500-502.ccls.	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2014/05/16 12:08

			DERWENT			
S87	243	704/500-502.ccls. and 700/94.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/16 12:08
S88	132883	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/16 12:09

		H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S89	21	(US-20070047481-$ or US-20050254505-$ or US-20080077261-$ or US-20090228919-$ or US-20030198257-$ or US-20130187767-$ or US-20080066094-$ or US-20100299639-$ or US-20100052843-$ or US-20080025535-$ or US-20020002039-$).did. or (US-5909183-$ or US-6604023-$ or US-6587127-$ or US-8700730-$ or US-8571237-$ or US-7849181-$ or US-7626952-$ or US-6889207-$ or US-7302468-$).did. or (EP-1098476-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2014/05/16 12:28
S90	5	S89 and (discover$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/16 12:28
S107	774	"6400996"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/16 14:31
S108	3	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) And S107	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/16 14:31
S109	4491	second near3 play$5 near4 (media song title)	US-PGPUB; USPAT;	OR	ON	2014/05/16 14:33

			EPO; JPO; DERWENT			
S160	21	(US-20070047481-$ or US-20050254505-$ or US-20080077261-$ or US-20090228919-$ or US-20030198257-$ or US-20130187767-$ or US-20080066094-$ or US-20100299639-$ or US-20100052843-$ or US-20080025535-$ or US-20020002039-$).did. or (US-5909183-$ or US-6604023-$ or US-6587127-$ or US-8700730-$ or US-8571237-$ or US-7849181-$ or US-7626952-$ or US-6889207-$ or US-7302468-$).did. or (EP-1098476-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2014/05/19 09:19
S161	1	S160 and complement	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/19 09:20
S162	2	S160 and complement$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/19 09:20
S170	30	("20030167335" | "20030177889" | "20040117044" | "20040225389" | "20050002535" | "20050021470" | "20050144284" | "20060041616" | "20070189544" | "20070288610" | "20080025535" | "20080152165" | "7761176" | "7962482" | "8189824").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/19 10:43
S171	25	("20020072816" | "20040223622" | "20050131558" | "20080045140" | "7539551" | "7558224" | "7742832" | "7805210" | "8239559").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/05/19 10:44
S172	2	"20120263318"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/15 11:12
S188	14	"8275307" "20020098878" "8639370" "7966085"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/15 13:19
S189	8	("8275307" "20020098878" "8639370" "7966085").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/15 13:22
S190	3865	(g06f3/162 g06f3/165 h04b1/20 h04b1/202 h04b1/205 h04b1/207 h04h20/106 h04r2420/01 h04r2420/03 h04r2420/05	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2014/07/15 13:25

		h04r5/04)"cpc."	DERWENT			
S191	4353	(g06f3/162 g06f3/165 h04b1/20 h04b1/202 h04b1/205 h04b1/207 h04h20/106 h04r2420/01 h04r2420/03 h04r2420/05 h04r5/04).cpc.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/15 13:25
S192	1423988	detect$6 near3 signal	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/15 13:26
S193	33531	detect$6 near3 signal and automat$8 near3 switch$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/15 13:26
S194	366	S191 and 700/94.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/15 13:26
S195	2	S191 and 700/94.ccls. and S193	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/15 13:26
S196	104	S191 and S193	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/15 13:26
S197	10	"6678014"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/15 13:32
S207	2	"272833".ap. and web$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/16 10:43
S208	167	chung.in. near2 chul	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/16 10:47
S209	33	chung.in. near2 chul and internet	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/16 10:47
S210	9	chung.in. near2 chul and internet and mondo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/16 10:47
S211	156663	web$6 with (zone scene config$9)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2014/07/16 10:48

			DERWENT			
S212	359	web$6 with (zone scene config$9) and wireless near4 $5speaker	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/16 10:48
S213	39	web$6 with (zone scene config$9) and wireless near4 $5speaker with (zone scene config$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/16 10:51
S214	0	"783718".ap. and web$6 with (zone scene config$9) and wireless near4 $5speaker with (zone scene config$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/16 10:52
S215	0	"783718".ap. and (server web$6) with (zone scene config$9) and wireless near4 $5speaker with (zone scene config$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/16 10:53
S216	2	"353805".ap. and (server web$6) with (zone scene config$9) and wireless near4 $5speaker with (zone scene config$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/16 10:53
S217	71	("20020078161" | "20030002689" | "20030161479" | "20050147261" | "20070003067" | "20070142944" | "20080002839" | "20080144864" | "20080175411" | "20090024662" | "20110044476" | "20110299696" | "20130022221" | "5218710" | "5553147" | "5668884" | "5673323" | "5946343" | "6704421" | "6778869" | "6916980" | "6931134" | "7171010" | "7571014" | "7643894" | "7792311" | "8045952" | "8103009" | "8234395").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/17 10:33
S218	2	"20080162668"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/17 10:39
S219	3	"20060193482"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/18 09:21
S220	3	"20050281138"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 09:29
S221	4	"089167".ap. and (tangible medium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 09:53
S222	2	"20040239816"	US-	OR	ON	2014/07/22

			PGPUB; USPAT; EPO; JPO; DERWENT			10:50
S223	21	(US-20070047481-$ or US-20050254505-$ or US-20080077261-$ or US-20090228919-$ or US-20030198257-$ or US-20130187767-$ or US-20080066094-$ or US-20100299639-$ or US-20100052843-$ or US-20080025535-$ or US-20020002039-$).did. or (US-5909183-$ or US-6604023-$ or US-6587127-$ or US-8700730-$ or US-8571237-$ or US-7849181-$ or US-7626952-$ or US-6889207-$ or US-7302468-$).did. or (EP-1098476-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 12:07
S224	20	S223 and (zone group$4 scene config$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:07
S225	20	S224	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:07
S226	2	"20060029005" and (zone group$4 scene config$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:07
S227	2	"20060029005" and state near3 chang$3 near6 tv	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:08
S228	0	"20060029005" and state near3 chang$3 near6 signal	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:08
S229	2	"20060029005" and state near3 chang$3 with (tv audio signal output)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:08
S230	2	"20060029005" and state near3 chang$3 with (tv audio signal output input)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:09
S231	2	"20060029005" and state near3 chang$3 with (audio signal output input)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:09

S232	171	700/94.ccls.and state near3 chang$3 with (audio signal output input)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:40
S233	171	700/94.ccls. and state near3 chang$3 with (audio signal output input)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:40
S234	114	700/94.ccls. and state near3 chang$3 with (audio signal output input) and $5speaker	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:41
S235	5	700/94.ccls. and state near3 chang$3 with (audio signal output input) and $5speaker with network	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/07/22 12:41
S329	3	"20040147224"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 13:02
S330	3	"20080092204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 13:03
S331	9	"853790".ap. and (channel multi$3channel multi$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 13:10
S332	1	"853790".ap. and (surround$5 "5.1")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 13:11
S333	3	"20040147224"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:01
S334	3	"20080092204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:01
S335	6	S333 S334	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:01
S336	2	S335 and $7channel	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:05

S337	15	("7483538" | "7853341" | "8103009").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:05
S338	36	("20010042107" | "20020022453" | "20020026442" | "20030157951" | "20040024478" | "20130253679" | "5923902" | "6256554" | "6404811" | "6522886" | "6611537" | "6757517" | "7130616" | "7143939" | "7236773" | "7657910" | "8014423" | "8843228").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:06
S339	4	("20130293345" | "8483853").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:06
S340	15	("20080066120" | "20080162668" | "20090097672" | "7302468" | "7626952" | "7817960").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:06
S341	2	("20050289244").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:06
S342	60	("20030167335" | "20030177889" | "20030198257" | "20040117044" | "20040225389" | "20050002535" | "20050021470" | "20050144284" | "20050254505" | "20060041616" | "20060149402" | "20070189544" | "20070288610" | "20080025535" | "20080066094" | "20090228919" | "6587127" | "6604023" | "7761176" | "7849181" | "7962482" | "8189824" | "8700730").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:06
S343	48	(S337 S338 S339 S340 S341 S342) and $7channel	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:06
S344	12	(S337 S338 S339 S340 S341 S342) and $7channel same config$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:07
S345	2	S335 and $7channel same config$9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:07
S346	3	S335 and config$9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:07
S347	12	("20020133764" | "20040160928" |	US-	OR	ON	2015/02/06

		"20050141469" | "20050169193" | "20050288805" | "20060173978" | "20060174116" | "20070192833" | "6466832" | "6954641").PN. OR ("7983615").URPN.	PGPUB; USPAT; USOCR			17:08
S348	4	S347 and $7channel same config$9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:08
S349	41	("20020072816" | "20030103088" | "20040088731" | "20040183756" | "20050177256" | "20060205349" | "20070147351" | "20070162872" | "20080126936" | "20080256341" | "20090307658" | "20100284389" | "20100292818" | "20100293264" | "20100318911" | "20100318917" | "5182552" | "5406634" | "5475835" | "5519641" | "5646602" | "5687334" | "5793366" | "5818948" | "5838384" | "6421692" | "6433800" | "6700592" | "6963784" | "7136709" | "7234115" | "7571014" | "7574723" | "7742606" | "7944922" | "7983615" | "7987294" | "8028038" | "8028323" | "8086575" | "8161400").PN. OR ("8423893").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/02/06 17:09
S350	18	S349 and (surround "5.1" $7channel) same config$9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:09
S351	8	sonos.as. and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:22
S352	8	sonos.as. and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:22
S353	17	(US-20070047481-$ or US-20050254505-$ or US-20090228919-$ or US-20030198257-$ or US-20130187767-$ or US-20080066094-$ or US-20100299639-$ or US-20100052843-$ or US-20080025535-$ or US-20020098878-$ or US-20050100174-$ or US-20060229752-$ or US-20100284389-$ or US-20080162668-$ or US-20060029005-$ or US-20080092204-$ or US-20050177256-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2015/02/06 17:41
S354	20	(US-5909183-$ or US-6604023-$ or	US-	OR	ON	2015/02/06

		US-6587127-$ or US-8700730-$ or US-8571237-$ or US-7849181-$ or US-6889207-$ or US-7302468-$ or US-8275307-$ or US-8639370-$ or US-7966085-$ or US-8086287-$ or US-6678014-$ or US-8423893-$ or US-7987294-$ or US-7742606-$ or US-5519641-$ or US-5406634-$ or US-8189824-$).did. or (EP-1098476-$).did.	PGPUB; USPAT; EPO			17:41
S355	37	S353 S354	US-PGPUB; USPAT; EPO	OR	ON	2015/02/06 17:41
S356	23	S355 and request$6	US-PGPUB; USPAT; EPO	OR	ON	2015/02/06 17:42
S357	4	"7742606" and channel near9 count$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:46
S358	4	"7742606" and channel near9 count$5 and (count$4 surround "5.1" multi$3channel)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:46
S359	2	"20050239397" and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:49
S360	2	"20050239397" and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) and request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:49
S361	0	"20050239397" and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) and request$6 and speaker with (wireless network$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:50
S362	0	"20050239397" and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) and request$6 and speaker	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:50
S363	2	"20050239397" and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) and request$6 and $4speaker same (wireless network$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:50
S364	2	"20050239397" and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) and request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:53
S365	2	"20050239397" and pem same $5speak$4	US-PGPUB;	OR	ON	2015/02/06 17:55

			USPAT; EPO; JPO; DERWENT			
S366	1	shdema.in. and request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:56
S367	1	shdema.in. and request$6 and (communication near3 interface "150" "180" "204" "210" "320")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 17:59
S368	2	shdema.in. and audio near3 manag$8 same $5speak$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 18:00
S369	2	shdema.in. and audio near3 manag$8 with $5speak$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 18:00
S370	3	"7539551" and request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 18:04
S371	3355	(network$6 wireless$4) near6 $4speaker.ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 18:25
S372	69	(network$6 wireless$4) near6 $4speaker.ab. same request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 18:25
S373	0	S372 and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) and request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 18:25
S374	15	S371 and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) and request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 18:25
S375	5	bryce.in. and $4speaker and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) and request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 18:28
S376	13	bryce.in. and $4speaker and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/06 18:28
S382	860	(h04r2227/003 h04r2227/005 h04s5/005).cpc.	US-PGPUB;	OR	ON	2015/02/07 10:06

			USPAT; EPO; JPO; DERWENT			
S383	91	S382 and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) and request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:07
S384	26	S382 and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) same request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:07
S385	33	S382 and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel $6channel) same request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:08
S386	0	holladay.in. and jbl.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:11
S387	9	holladay.in. and harman.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:11
S388	0	reverberation and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:13
S389	754	(set$3top set adj top) same channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel $6channel) same request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:17
S390	0	"186991".ap. and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel $6channel) same request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:17
S391	0	"186991".ap. and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel $6channel)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:18
S392	6	"186991".ap. and (count$4 surround "5.1" multi$3channel $6channel)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:18
S393	0	"186991".ap. and (count$4 surround "5.1" multi$3channel $6channel) and reverb	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:18
S394	1	"186991".ap. and (count$4 surround "5.1" multi$3channel $6channel)	US-PGPUB;	OR	ON	2015/02/07 10:18

		and reverb$8	USPAT; EPO; JPO; DERWENT			
S395	585	(set$3top set adj top) same $6channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel $6channel) same request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:20
S396	337	(set$3top set adj top) same $6channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel $6channel) same request$6 and (user adj interface gui)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:20
S397	22	(set$3top set adj top) same $6channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel $6channel) same request$6 and (user adj interface gui) and (wireless$4 network$6) near5 $5speak$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:21
S398	3	"20080242222"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:42
S399	10	"853790".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:49
S400	209	("20030020763" | "7571014" | "7742832" | "7761176" | "20040024478" | "20020124097" | "7539551" | "20040117044" | "20050002535" | "20050144284" | "20070288610" | "20080066094" | "8700730" | "6522886" | "7143939" | "20070142022" | "6778869" | "7643894" | "8234395" | "20020072816" | "20030167335" | "20060149402" | "7626952" | "7130616" | "20020124097" | "20040131192" | "7218708" | "20040223622" | "7805210" | "8239559" | "20030177889" | "20080025535" | "20090097672" | "20020026442" | "5923902" | "7853341" | "8103009" | "20040015252" | "20020002039" | "20060041616" | "20050289244" | "20020022453" | "20030157951" | "6256554" | "6611537" | "7236773" | "20040010727" | "7187947" | "7668990" | "8045952" | "8290603" | "7558224" | "20080077261" | "20080152165" | "20040225389" | "20050021470" | "20050254505" | "20090228919" | "7849181" | "7962482" | "8189824" | "20080162668" | "20130293345" | "20010042107" | "6404811" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/07 10:52

		"7657910" | "8014423" | "8843228" | "7483538" | "20070142944" | "20080144861" | "5182552" | "6631410" | "7130608" | "20050131558" | "20070189544" | "6604023" | "20020003548" | "20050289224" | "5946343" | "20070142022" | "20080045140" | "20030198257" | "6587127" | "20080066120" | "7302468" | "7817960" | "8483853" | "20130253679" | "6757517").PN.				
S403	13	"299847".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 15:50
S404	870	(h04r2227/003 h04r2227/005 h04s5/005).cpc.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 16:23
S405	26	S404 and channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel) same request$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 16:23
S406	129137	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 16:24

		G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S407	3877	plural$4 near3 play$5 near4 (media song title)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 16:24
S408	5124	second near3 play$5 near4 (media song title)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 16:24
S409	39	g06f17/30772.cpc. and (S407 and S408)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2015/02/21 16:24

			DERWENT			
S410	34847	detect$6 near3 signal and automat$8 near3 switch$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 16:58
S411	881	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 16:58
S412	129137	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 16:58

		G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S413	659	S411 and S412	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 16:59
S414	1	S410 and S413	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 16:59
S415	865	"6400996"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 17:01
S416	25	zone with play$4 and (sync synchron$8) And S415	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 17:01
S417	3	"20070016427"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/21 17:52
S418	3	"20030147538"	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2015/02/23 08:40

			DERWENT			
S419	64	"7,188,186"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 09:14
S420	2	"7,188,186".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 09:14
S421	1	"395900".ap. and light near3 effect$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 09:19
S422	13	"299847".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 09:48
S423	2	"20140286507"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:01
S424	210	("20020072816" | "20050131558" | "20080144861" | "7742832" | "8234395" | "20130293345" | "20040117044" | "20050144284" | "20070288610" | "20080045140" | "20080066094" | "20080077261" | "6778869" | "7130608" | "8700730" | "6522886" | "6611537" | "7143939" | "20020002039" | "20030167335" | "20060149402" | "7558224" | "7571014" | "7626952" | "8483853" | "7130616" | "20030177889" | "20080025535" | "6631410" | "7187947" | "7761176" | "20090097672" | "5923902" | "7853341" | "8103009" | "20030020763" | "20040223622" | "20050289224" | "20050289244" | "20060041616" | "20070142022" | "20080152165" | "5946343" | "7668990" | "8788080" | "20020022453" | "20030157951" | "20040024478" | "6256554" | "7236773" | "20020003548" | "20040010727" | "20040225389" | "20050021470" | "20050254505" | "20090228919" | "5182552" | "7218708" | "7805210" | "7849181" | "7962482" | "8045952" | "8189824" | "20080162668" | "20010042107" | "6404811" | "7657910" | "8014423" | "7483538" | "20070142944" | "20070189544" | "6604023" | "20020026442" | "20130253679" | "20020124097" | "20030198257" | "20040015252" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:06

		"20040131192" | "20050002535" | "6587127" | "7539551" | "7643894" | "8239559" | "8290603" | "20080066120" | "7302468" | "7817960" | "6757517").PN.				
S425	4500803	pair$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:06
S426	35	S424 and S425	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:06
S427	20	S424 and (stereo same (mono multi$6channel multi$6 near2 channel))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:07
S428	11	S426 and S427	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:07
S429	21	chung.in. and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:09
S430	0	chung.in. and mccord.xa.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:09
S431	1	chung.in. and mccord.xp.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:10
S432	1999	S425 AND ((H04R2227/005 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04S7/30 OR G06F3/165).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:11
S433	1228	S425 same (stereo same (mono multi$6channel multi$6 near2 channel))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:12
S434	120	S433 AND ((H04R2227/005 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04S7/30 OR G06F3/165).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:12
S435	3	S434 AND ((G06F3/165).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:14

S436	13	"8483853"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:16
S437	1	chung.in. and mccord.xp. and (eq equaliz$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:17
S438	1	chung.in. and mccord.xp. and (eq equaliz$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:18
S439	1	chung.in. and mccord.xp. and (eq equaliz$9 frequency)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:18
S440	1	chung.in. and mccord.xp. and (eq equaliz$9 select$8 near3 frequency)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:18
S441	1	chung.in. and mccord.xp. and ((determin$6 config$8 select$8) near3 frequency)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:20
S442	943	multi$3channel near5 pair$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 10:28
S443	74	(select$6 determin$6) near6 multi$3channel near2 pair$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:03
S444	4366	381/17,77,80,81.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:04
S445	6163	((H04R2227/005 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04S7/30 OR G06F3/165).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:05
S446	946	S444 and S445	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:05
S447	0	S443 and S446	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:05

S448	2	S443 and (S444 S445)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:05
S449	0	(select$6 determin$6) near6 multi$3channel near2 pair$6 with (play$3back $6speaker)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:05
S450	50	(select$6 determin$6) near6 multi$3channel near2 pair$6 and (audio sound music play$3back $6speaker)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:06
S451	372	select$6 with stereo with (surround "5.1")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:10
S452	15	S446 and S451	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:10
S453	19	("2005/0177256").URPN.	USPAT	OR	ON	2015/02/23 11:12
S454	9	S446 and channel near2 map$6	USPAT	OR	ON	2015/02/23 11:22
S455	26	S446 and channel near2 map$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:22
S456	17	S446 and channel near2 map$6 not S454	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:22
S457	2475	select$6 near5 channel near2 map$6 not S454	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:27
S458	2	S451 and S457	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:32
S459	0	(select$6 determin$6) near6 multi$3channel near2 pair$6 and (audio sound music play$3back $6speaker) and S457	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:33
S460	0	S443 and S457	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:33

S461	3	"20040147224"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:34
S462	3	"20080092204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:34
S463	6	S461 S462	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:34
S464	2	S463 and $7channel same config$9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:34
S465	1492	S457 and $7channel same config$9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:34
S466	894	S465 and (audio sound music play$3back $6speaker)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:35
S467	143	S465 and (audio sound music play$3back $6speaker) near6 config$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 11:37
S468	2	"20060149402" and network$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 14:13
S469	2	"20060149402" and network$6 and (surround "5.1")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 14:14
S470	2	"20060149402" and network$6 and (surround "5.1") and stereo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 14:14
S471	16	(US-20040117044-$ or US-20080159545-$ or US-20050177256-$ or US-20040223622-$ or US-20100153097-$ or US-20090232326-$ or US-20070223725-$ or US-20060149402-$).did. or (US-7689305-$ or US-8423893-$ or US-8233635-$ or US-8054987-$ or US-	US-PGPUB; USPAT	OR	ON	2015/02/23 15:04

		7804972-$ or US-8588432-$ or US-8498726-$ or US-6487296-$).did.				
S472	10	S471 and (mono monaural)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:05
S473	0	shdema.in. and (mono monaural)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:08
S474	210	("20020072816" | "20050131558" | "20080144861" | "7742832" | "8234395" | "20130293345" | "20040117044" | "20050144284" | "20070288610" | "20080045140" | "20080066094" | "20080077261" | "6778869" | "7130608" | "8700730" | "6522886" | "6611537" | "7143939" | "20020002039" | "20030167335" | "20060149402" | "7558224" | "7571014" | "7626952" | "8483853" | "7130616" | "20030177889" | "20080025535" | "6631410" | "7187947" | "7761176" | "20090097672" | "5923902" | "7853341" | "8103009" | "20030020763" | "20040223622" | "20050289224" | "20050289244" | "20060041616" | "20070142022" | "20080152165" | "5946343" | "7668990" | "8788080" | "20020022453" | "20030157951" | "20040024478" | "6256554" | "7236773" | "20020003548" | "20040010727" | "20040225389" | "20050021470" | "20050254505" | "20090228919" | "5182552" | "7218708" | "7805210" | "7849181" | "7962482" | "8045952" | "8189824" | "20080162668" | "20010042107" | "6404811" | "7657910" | "8014423" | "7483538" | "20070142944" | "20070189544" | "6604023" | "20020026442" | "20130253679" | "20020124097" | "20030198257" | "20040015252" | "20040131192" | "20050002535" | "6587127" | "7539551" | "7643894" | "8239559" | "8290603" | "20080066120" | "7302468" | "7817960" | "6757517").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:09
S475	2	shdema.in. and S474	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:09
S476	1	shdema.in. and S474 and (eq equaliz$6)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2015/02/23 15:09

			DERWENT			
S477	1	shdema.in. and S474 and (eq equaliz$6) and ("5.1" surround multi$3channel multi$4 near2 channel) same (stereo mono)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:10
S478	0	shdema.in. and S474 and (eq equaliz$6) same ("5.1" surround multi$3channel multi$4 near2 channel) same (stereo mono)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:10
S479	1	"20050177256" and (left right) with surround	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:31
S480	1	"20050177256" and (left right) with (stereo surround)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:31
S481	0	"20050177256" and (eq equaliz$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:32
S482	1	"20050177256" and (eq equaliz$8 frequency)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:32
S483	0	"20050177256" and (pass)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:32
S484	0	"20050177256" and ($6pass)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:32
S486	0	S471 and ($6pass) with (select$6 config$8 determin$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 15:33
S487	1	"299847".ap. and consolid$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 16:29
S488	2	"20060149402" and (user control$) near3 interface	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 16:46
S489	16	(US-20040117044-$ or US-20080159545-$ or US-20050177256-$ or US-20040223622-$ or US-	US-PGPUB; USPAT	OR	ON	2015/02/23 16:54

		20100153097-$ or US-20090232326-$ or US-20070223725-$ or US-20060149402-$).did. or (US-7689305-$ or US-8423893-$ or US-8233635-$ or US-8054987-$ or US-7804972-$ or US-8588432-$ or US-8498726-$ or US-6487296-$).did.				
S490	7	S489 and ($6pass)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 16:54
S491	213	n7947.oref. (mpeg$3surround mpeg adj surround).oref.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 17:30
S492	213	$3n7947.oref. (mpeg$3surround mpeg adj surround).oref.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/23 17:30
S493	39	("20120215530" | "7539551" | "20060062401" | "20080189065" | "20080232603" | "20120114152" | "20080077261" | "5386478" | "20090003613" | "20100260360" | "20060149402" | "20050180582" | "20020154785" | "20030142832" | "20080162668" | "20100272270" | "20060229752" | "20080037674" | "8559655").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/24 13:40
S494	42	("20120215530" | "7539551" | "20060062401" | "20080189065" | "20080232603" | "20120114152" | "20080077261" | "5386478" | "20090003613" | "20100260360" | "20060149402" | "20050180582" | "20020154785" | "20030142832" | "20080162668" | "20100272270" | "20060229752" | "20080037674" | "8559655").PN. "8320824".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/24 13:43
S495	3	"8320824".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/24 13:46
S496	11	"664367".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/24 13:48
S497	10	"670247".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/24 13:49
S498	210	("20020072816" | "20050131558" | "20080144861" | "7742832" | "8234395" | "20130293345" |	US-PGPUB; USPAT;	OR	ON	2015/02/24 15:48

		"20040117044" | "20050144284" | "20070288610" | "20080045140" | "20080066094" | "20080077261" | "6778869" | "7130608" | "8700730" | "6522886" | "6611537" | "7143939" | "20020002039" | "20030167335" | "20060149402" | "7558224" | "7571014" | "7626952" | "8483853" | "7130616" | "20030177889" | "20080025535" | "6631410" | "7187947" | "7761176" | "20090097672" | "5923902" | "7853341" | "8103009" | "20030020763" | "20040223622" | "20050289224" | "20050289244" | "20060041616" | "20070142022" | "20080152165" | "5946343" | "7668990" | "8788080" | "20020022453" | "20030157951" | "20040024478" | "6256554" | "7236773" | "20020003548" | "20040010727" | "20040225389" | "20050021470" | "20050254505" | "20090228919" | "5182552" | "7218708" | "7805210" | "7849181" | "7962482" | "8045952" | "8189824" | "20080162668" | "20010042107" | "6404811" | "7657910" | "8014423" | "7483538" | "20070142944" | "20070189544" | "6604023" | "20020026442" | "20130253679" | "20020124097" | "20030198257" | "20040015252" | "20040131192" | "20050002535" | "6587127" | "7539551" | "7643894" | "8239559" | "8290603" | "20080066120" | "7302468" | "7817960" | "6757517").PN.	EPO; JPO; DERWENT			
S499	0	S498 and kreifeldt.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/24 15:52
S500	29	("20020098878" | "20050100174" | "20050177256" | "20060179160" | "20060205349" | "20060229752" | "20070223725" | "20080092204" | "20100010651" | "20100052843" | "5406634" | "5519641" | "6889207").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/24 16:04
S501	0	S498 and S500	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/02/24 16:04
S502	13	("20020098878" | "20050100174" | "20050177256" | "20060179160" | "20060205349" | "20060229752" | "20070223725" | "20080092204" | "20100010651" | "20100052843" | "5406634" | "5519641" | "6889207").PN.	US-PGPUB; USPAT	OR	ON	2015/02/24 16:04

S504	1	("20060149402" "20050177256").pn. and (filter$6 $5pass$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/03/09 11:10
S505	89	$5speaker near3 pairing	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/03/09 11:25
S506	61	$5speaker near3 pairing and $5pass$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/03/09 11:25
S507	16	$5speaker near3 pairing and (filter$6 frequency cross$3over) same $5pass$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/03/09 11:27
S508	13	"299847".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/03/09 11:27
S509	7	"299847".ap. and $5pass$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/03/09 11:27
S510	0	$5speaker near3 pairing and select$4 near6 (filter$6 frequency cross$3over) same $5pass$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/03/09 11:29
S562	6683	h04r2227/$3.cpc. h04r2420/$4.cpc. h04s7/30.cpc. h04r2227/$3.cpc. h04r27/$3.cpc. h04r3/12.cpc.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/08 16:19
S571	187	log$3compand$6 (log logar$6) near2 compand$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/11 09:23
S572	314	yamaha.as. and (packet same network$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 09:07
S573	112	yamaha.as. and (packet same network$6) and @ad<="20040401"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 09:09
S574	1	"20020124097" and (packet same network$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 09:10

S575	4	"20050135643" "20100057472"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 10:31
S576	4	"20050135643" "20100057472" and (stag$4 $5pass)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 10:31
S577	3	("20050135643" "20100057472") and (stag$4 $5pass)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 10:32
S578	3	("20050135643" "20100057472") and (stag$4 $5pass) and (high low hi$5 lo$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 10:33
S579	3	("20050135643" "20100057472") and (high low hi$5 lo$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 10:33
S580	111	"7483958" "20100228740"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 12:12
S581	4	("7483958" "20100228740").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 12:12
S582	8	("20070048713" "20120030366" "20060143236" "20080091771").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 12:14
S583	19	("20020080783" | "20020114354" | "20030018797" | "20030067437" | "20040208158" | "20040213230" | "20040228367" | "20130018960" | "6816818").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/05/12 12:24
S631	1	"921550".ap. and 5d	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/10/15 11:15
S632	79	sonos.as. and select$6.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/11 14:28
S633	14	sonos.as. and select$6.clm. same display$6 same (zone scene)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/11 14:28

S659	11	"465457".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 11:53
S660	2	"20140361867"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 11:53
S661	11175	((340/4.41 OR 381/107 OR 381/120 OR 381/80 OR 700/94).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 11:57
S662	1	S659 AND ((G06F3/165 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F17/30026 OR G05B15/02 OR H03G1/02 OR H03G7/00 OR H03G3/20 OR H04H60/80 OR H04N21/43615 OR H04N21/4307 OR H04N21/43637 OR H04N21/4852 OR H04N21/8106 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12 OR H04R2420/01 OR H04R2420/07 OR H04R5/04 OR G11B19/02 OR H04S2400/01 OR H04S2400/13 OR H04S3/008 OR H04S7/30).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 11:57
S663	2582	S661 AND ((G06F3/165 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F17/30026 OR G05B15/02 OR H03G1/02 OR H03G7/00 OR H03G3/20 OR H04H60/80 OR H04N21/43615 OR H04N21/4307 OR H04N21/43637 OR H04N21/4852 OR H04N21/8106 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12 OR H04R2420/01 OR H04R2420/07 OR H04R5/04 OR G11B19/02 OR H04S2400/01 OR H04S2400/13 OR H04S3/008 OR H04S7/30).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 11:57
S664	212	S663 and $6speaker with network$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 11:58
S665	331	S663 and $6speaker same network$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 11:58
S666	315	S663 and $6speaker same network$6 and (zone scene config$9 group$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 11:58
S667	166	S663 and $6speaker same network$6 and (zone scene config$9 group$5) same display$6	US-PGPUB; USPAT;	OR	ON	2016/01/13 11:58

			EPO; JPO; DERWENT			
S668	69	S663 and $6speaker same network$6 and (zone scene config$9 group$5) same display$6 same $5speak$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 12:23
S669	18	max with gordon with ramsay.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 12:32
S670	14	sonos and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 12:43
S671	12	sonos.as. and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 12:43
S672	2	S670 not S671	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/01/13 12:43
S706	14	sonos and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 13:18
S707	12	sonos.as. and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 13:18
S708	2	S706 not S707	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 13:18
S709	211	("20020002039" | "20020072816" | "20020124097" | "20040117044" | "20050131558" | "20050254505" | "20070288610" | "20080066094" | "20080077261" | "20080144861" | "6587127" | "6604023" | "7742832" | "8234395" | "20020026442" | "6757517" | "7130616" | "8103009" | "20050021470" | "20060041616" | "20080025535" | "20080045140" | "6778869" | "7130608" | "7626952" | "8189824" | "6404811" | "20130103873" | "7558224" | "7761176" | "7962482" | "8700730" | "20030157951" | "7657910" | "20030167335" | "20060149402" | "20080066120" | "20090228919" | "6631410" | "7187947" | "7817960" | "5923902" | "7483538" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 13:19

		"8423893" | "20030020763" | "20030177889" | "20040223622" | "20050002535" | "20050289224" | "20070142022" | "5946343" | "7668990" | "20040024478" | "6256554" | "7143939" | "7236773" | "20020003548" | "20030198257" | "20040010727" | "20050289244" | "5182552" | "7218708" | "7805210" | "7849181" | "8045952" | "6522886" | "8014423" | "20140093085" | "20040225389" | "20070142944" | "20080152165" | "20080162668" | "20010042107" | "7853341" | "8762565" | "8965544" | "20040015252" | "20040131192" | "20050144284" | "20070189544" | "20090097672" | "7302468" | "7539551" | "7571014" | "7643894" | "8239559" | "8290603" | "8788080" | "20020022453" | "6611537").PN.				
S710	3	"2014074089"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 13:26
S711	1	"20160026428"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 13:26
S712	0	schdema.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 13:51
S713	6	shdema.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 13:52
S714	1	"20160026428" and during	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 14:13
S715	0	"20160026428" and while	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 14:14
S716	1	"20150286360" and (whil$4 during)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/04 14:14
S721	1	"20150286360" and (stereo left right surround)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2016/02/05 11:08

			DERWENT			
S722	2	"20140093085"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 11:21
S723	30	sonos.as. and stereo.ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 11:21
S724	3	sonos.as. and stereo.ab. and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 11:21
S725	1	"083499".ap. and stereo and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 11:22
S726	10	"8788080"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 11:23
S727	0	"013740" and paior$4.ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 11:23
S728	2	"013740".ap. and pair$4.ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 11:23
S729	0	"853790".ap. and pair$4.ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 11:24
S730	4	"853790".ap. and pair$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 11:24
S731	13	"8483853" and pair$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 11:24
S732	2	"20130103873" and (pair$4 stereo surround)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 12:08
S733	7	"453343".ap.	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2016/02/05 14:03

			DERWENT			
S734	13	"494220".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/05 14:12
S735	764	("1559320" | "2180522" | "3710321" | "4013085" | "4081631" | "4090216" | "4107784" | "4108211" | "4159536" | "4181821" | "4204089" | "4241286" | "4253477" | "4332464" | "4384169" | "4386345" | "4433377" | "4451849" | "4485439" | "4495644" | "4513379" | "4513435" | "4555775" | "4577343" | "4586158" | "4587670" | "4589022" | "4611346" | "4615081" | "4618984" | "4642790" | "4654875" | "4655233" | "4658425" | "4670848" | "4677570" | "4680429" | "4680805" | "4686522" | "4698625" | "4709390" | "4713775" | "4736296" | "4750122" | "4754489" | "4755811" | "4783804" | "4785413" | "4790028" | "4797930" | "4802223" | "4803729" | "4807752" | "4813074" | "4827518" | "4829583" | "4831551" | "4833718" | "4837798" | "4837831" | "4875187" | "4887212" | "4896359" | "4908867" | "4918723" | "4926491" | "4928307" | "4931783" | "4935954" | "4939639" | "4941488" | "4945504" | "4953106" | "4972462" | "4975975" | "4980916" | "4985924" | "4994966" | "4994983" | "5001774" | "5003577" | "5007095" | "5007098" | "5016002" | "5027110" | "5027408" | "5029211" | "5033087" | "5046099" | "5047614" | "5047617" | "5050215" | "5053758" | "5054084" | "5067158" | "5067503" | "5075896" | "5079723" | "5083119" | "5083268" | "5086792" | "5090012" | "5091790" | "5103498" | "5109509" | "5111423" | "5119079" | "5122951" | "5123103" | "5125022" | "5125030" | "5127043" | "5133023" | "5144875" | "5148541" | "5153913" | "5157610" | "5157779" | "5161102" | "5164982" | "5167004" | "5175536" | "5175803" | "5175814" | "5179627" | "5195034" | "5195167" | "5201034" | "5210689" | "5212638" | "5212821" | "5218700" | "5220629" | "5231670" | "5237502" | "5241619" | "5252951" | "5253325" | "5257387" | "5260697" | "5266931" | "5266949" | "5274771" | "5274818" | "5276616"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/07 13:53

		| "5276794" | "5278980" | "5283818" | "5287448" | "5289562" | "5293254" | "5296642" | "5297194" | "5299125" | "5299284" | "5305205" | "5305768" | "5315689" | "5325462" | "5326270" | "5327342" | "5329608" | "5333266" | "5335011" | "5335276" | "5341293" | "5341466" | "5353374" | "5353376" | "5353408" | "5353432" | "5357431" | "5367640" | "5369575" | "5369577" | "5371901" | "5373566" | "5377103" | "5377303" | "5381853" | "5384671" | "5390236" | "5390281" | "5392419" | "5406305" | "5408060" | "5422656" | "5425108" | "5428731" | "5440615" | "5442598" | "5442780" | "5449368" | "5450523" | "5457768" | "5459488" | "5463696" | "5463725" | "5465401" | "5473728" | "5475798" | "5477447" | "5477448" | "5477451" | "5481739" | "5483261" | "5485372" | "5485543" | "5488204" | "5488727" | "5490234" | "5491758" | "5497319" | "5500903" | "5500905" | "5500937" | "5502774" | "5521816" | "5524140" | "5533182" | "5548507" | "5555343" | "5555344" | "5559301" | "5559945" | "5564446" | "5565888" | "5568540" | "5570324" | "5572576" | "5574824" | "5577135" | "5577164" | "5579037" | "5581484" | "5581652" | "5583993" | "5594641" | "5596260" | "5608698" | "5608841" | "5610812" | "5613122" | "5615378" | "5615384" | "5616876" | "5617386" | "5617539" | "5619583" | "5627939").PN.				
S736	2	"20110283190"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/08 13:55
S737	13	("272208" "771010").clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 13:56
S738	21	("272208" "771010").ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 13:56
S739	1	("272208" "771010").ap. and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 13:56

S740	16	("20020133249" | "20030021429" | "20030225468" | "20050144215" | "20050190933" | "20060095620" | "20070043804" | "20120033833" | "5744741" | "5842014" | "6351475" | "7058189" | "7653448" | "8396578" | "8452434" | "8467889").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/03/07 13:57
S741	7	S740 and memory.ab.	US-PGPUB; USPAT; USOCR	OR	ON	2016/03/07 13:57
S742	0	S740 and cadenc$4	US-PGPUB; USPAT; USOCR	OR	ON	2016/03/07 14:00
S743	21	("272208" "771010").ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 14:05
S744	9	("272833").ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 14:46
S745	1	("272833").ap. and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 14:46
S746	3	("272833").ap. and (local$6 lan) same network	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 14:47
S747	3	"20120096125"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 14:49
S748	218	sonos.as. and (local$6 lan) same network	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 14:50
S749	4	sonos.as. and (local$6 lan) same network and @pd<="20091013"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 14:51
S750	223	("5668884" | "6611537" | "7571014" | "7657910" | "20120051558" | "20140016784" | "20140016802" | "20150201274" | "7490044" | "8063698" | "8160281" | "8306235" | "8831761" | "8977974" | "6522886" | "7792311" | "8843224" | "20140016786" | "20140226823" | "20140294200" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 15:11

		"7519188" | "8331585" | "8879761" | "8914559" | "5923902" | "6404811" | "6778869" | "7643894" | "8234395" | "7689305" | "20130259254" | "7251533" | "7383036" | "7607091" | "5218710" | "7483538" | "20110170710" | "20130010970" | "20140219456" | "7072477" | "8175292" | "8243961" | "8984442" | "5553147" | "6704421" | "6757517" | "8014423" | "20140355768" | "5910991" | "7630500" | "5673323" | "7171010" | "8045952" | "8103009" | "20140023196" | "20140112481" | "20140355794" | "20150146886" | "4995778" | "7394480" | "8229125" | "8452020" | "8620006" | "8934655" | "6256554" | "6631410" | "6916980" | "7130608" | "7130616" | "20070142944" | "7853341" | "20120263325" | "20130028443" | "20140233755" | "8233632" | "8238578" | "8265310" | "8290185" | "8325935" | "8391501" | "8577045" | "5946343" | "6931134" | "7143939" | "7236773" | "20100142735" | "20120127831" | "20150063610" | "20150281866" | "8139774" | "8600075" | "8855319" | "8934647" | "8965546" | "9020153").PN.				
S751	14	S750 and (local$6 lan) same network and @pd<="20091013"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 15:11
S752	14	S750 and (local$6 lan) same $5network$5 and @pd<="20091013"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 15:11
S753	9	S750 and (local$6 lan) same $5network$5 and @pd<="20091013" and (frequency pitch volume gain loudness sampling adj rate bit$3depth)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/07 15:23
S754	223	("5668884" | "6611537" | "7571014" | "7657910" | "20120051558" | "20140016784" | "20140016802" | "20150201274" | "7490044" | "8063698" | "8160281" | "8306235" | "8831761" | "8977974" | "6522886" | "7792311" | "8843224" | "20140016786" | "20140226823" | "20140294200" | "7519188" | "8331585" | "8879761" | "8914559" | "5923902" | "6404811" | "6778869" | "7643894" | "8234395" | "7689305" | "20130259254" | "7251533" | "7383036" | "7607091" | "5218710" | "7483538" | "20110170710" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 08:56

		"20130010970" | "20140219456" | "7072477" | "8175292" | "8243961" | "8984442" | "5553147" | "6704421" | "6757517" | "8014423" | "20140355768" | "5910991" | "7630500" | "5673323" | "7171010" | "8045952" | "8103009" | "20140023196" | "20140112481" | "20140355794" | "20150146886" | "4995778" | "7394480" | "8229125" | "8452020" | "8620006" | "8934655" | "6256554" | "6631410" | "6916980" | "7130608" | "7130616" | "20070142944" | "7853341" | "20120263325" | "20130028443" | "20140233755" | "8233632" | "8238578" | "8265310" | "8290185" | "8325935" | "8391501" | "8577045" | "5946343" | "6931134" | "7143939" | "7236773" | "20100142735" | "20120127831" | "20150063610" | "20150281866" | "8139774" | "8600075" | "8855319" | "8934647" | "8965546" | "9020153").PN.				
S755	9	S754 and (local$6 lan) same $5network$5 and @pd<="20091013" and (frequency pitch volume gain loudness sampling adj rate bit$3depth)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 08:56
S756	12	"552049".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 11:19
S757	2	"20150081072"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 11:26
S758	640	((G06F17/3074).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 11:28
S759	3536	((G06F17/30769 G06F17/30772 G06F17/30778 G06F17/30749 G06F17/30752 G06F17/ G06F17/3074).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 11:29
S760	1057	((H03G5/005 OR H03G5/025 OR H03G5/165).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 11:32
S761	1057	((H03G5/005 OR H03G5/025 OR H03G5/165 H03G09/005 H03G09/02 H03G09/12 H03G09/14 H03G09/18 H03G09/00).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 11:34
S762	9	S759 and S761	US-	OR	ON	2016/03/08

			PGPUB; USPAT; EPO; JPO; DERWENT			11:34
S763	18	(US-20070223725-$ or US-20100052843-$ or US-20100010651-$ or US-20080092204-$ or US-20060229752-$ or US-20060205349-$ or US-20060179160-$ or US-20050100174-$ or US-20020098878-$ or US-20130103873-$ or US-20120096125-$ or US-20070214229-$).did. or (US-8423893-$ or US-6889207-$ or US-5519641-$ or US-5406634-$ or US-9094706-$).did. or (WO-2014074089-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2016/03/08 12:35
S764	0	kreifeldt.in. and shdema.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 12:35
S765	0	(kreifeldt.in. shdema.in.) and S763	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 12:36
S766	0	("2015/0081072").URPN.	USPAT	OR	ON	2016/03/08 12:36
S767	5	"272833".ap.	USPAT	OR	ON	2016/03/08 12:36
S768	9	"272833".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 12:36
S769	12	sonos.as. and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 12:38
S770	122	("20010042107" | "20020002039" | "20020003548" | "20020022453" | "20020026442" | "20020072816" | "20020098878" | "20020124097" | "20020143547" | "20030020763" | "20030157951" | "20030167335" | "20030177889" | "20030198257" | "20040010727" | "20040015252" | "20040024478" | "20040117044" | "20040131192" | "20040147224" | "20040220687" | "20040223622" | "20040225389" | "20050002535" | "20050021470" | "20050100174" | "20050131558" | "20050144284" | "20050177256" | "20050254505" | "20050289224" | "20050289244" | "20060041616" | "20060149402" |	US-PGPUB; USPAT; USOCR	OR	ON	2016/03/08 12:38

		"20060179160" | "20060205349" | "20060229752" | "20070142022" | "20070142944" | "20070189544" | "20070223725" | "20070288610" | "20080025535" | "20080045140" | "20080066094" | "20080066120" | "20080077261" | "20080092204" | "20080144861" | "20080152165" | "20080159545" | "20080162668" | "20090097672" | "20090228919" | "20090232326" | "20100010651" | "20100052843" | "20100153097" | "20100284389" | "20100299639" | "20120047435" | "20130253679" | "20130293345" | "5182552" | "5406634" | "5519641" | "5923902" | "5946343" | "6256554" | "6404811" | "6487296" | "6522886" | "6587127" | "6604023" | "6611537" | "6631410" | "6757517" | "6778869" | "6889207" | "7130608" | "7130616" | "7143939" | "7187947" | "7218708" | "7236773" | "7302468" | "7346332" | "7483538" | "7539551" | "7558224" | "7561932" | "7571014" | "7626952" | "7643894" | "7657910" | "7668990" | "7689305" | "7742832" | "7761176" | "7804972" | "7805210" | "7817960" | "7849181" | "7853341").PN. OR ("7962482" | "8014423" | "8045952" | "8054987" | "8086287" | "8103009" | "8135141" | "8189824" | "8233635" | "8234395" | "8239559" | "8290603" | "8423893" | "8483853" | "8498726" | "8588432" | "8700730" | "8788080").PN. OR ("9219959").URPN.				
S771	3536	((G06F17/30769 G06F17/30772 G06F17/30778 G06F17/30749 G06F17/30752 G06F17/ G06F17/3074).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 12:40
S772	1057	((H03G5/005 OR H03G5/025 OR H03G5/165 H03G09/005 H03G09/02 H03G09/12 H03G09/14 H03G09/18 H03G09/00).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 12:40
S773	4584	S771 S772	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 12:40
S774	4	mccord.xp. and apple.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 12:42
S775	2	"20060173972"	US-PGPUB;	OR	ON	2016/03/08 13:07

			USPAT; EPO; JPO; DERWENT			
S777	16	paige near2 smith	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 15:28
S778	0	paige near2 smith and mccord	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 15:28
S779	3	paige near2 smith and (eq equali$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 15:28
S780	2	"20020072816" and stream with digital	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 15:38
S781	0	"20020072816" and stream with digital same (disc)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 15:39
S782	1	"20020072816" and stream with digital same (cd)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/08 15:39
S783	223	("5668884" | "6611537" | "7571014" | "7657910" | "20120051558" | "20140016784" | "20140016802" | "20150201274" | "7490044" | "8063698" | "8160281" | "8306235" | "8831761" | "8977974" | "6522886" | "7792311" | "8843224" | "20140016786" | "20140226823" | "20140294200" | "7519188" | "8331585" | "8879761" | "8914559" | "5923902" | "6404811" | "6778869" | "7643894" | "8234395" | "7689305" | "20130259254" | "7251533" | "7383036" | "7607091" | "5218710" | "7483538" | "20110170710" | "20130010970" | "20140219456" | "7072477" | "8175292" | "8243961" | "8984442" | "5553147" | "6704421" | "6757517" | "8014423" | "20140355768" | "5910991" | "7630500" | "5673323" | "7171010" | "8045952" | "8103009" | "20140023196" | "20140112481" | "20140355794" | "20150146886" | "4995778" | "7394480" | "8229125" | "8452020" | "8620006" | "8934655" | "6256554" | "6631410" | "6916980" | "7130608" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/10 10:40

		"7130616" | "20070142944" | "7853341" | "20120263325" | "20130028443" | "20140233755" | "8233632" | "8238578" | "8265310" | "8290185" | "8325935" | "8391501" | "8577045" | "5946343" | "6931134" | "7143939" | "7236773" | "20100142735" | "20120127831" | "20150063610" | "20150281866" | "8139774" | "8600075" | "8855319" | "8934647" | "8965546" | "9020153").PN.				
S784	42	(US-20080159545-$ or US-20050177256-$ or US-20100153097-$ or US-20090232326-$ or US-20070223725-$ or US-20100052843-$ or US-20100010651-$ or US-20080092204-$ or US-20060229752-$ or US-20060205349-$ or US-20060179160-$ or US-20050100174-$ or US-20020098878-$ or US-20020022453-$ or US-20010042107-$ or US-20130103873-$ or US-20120096125-$ or US-20070214229-$ or US-20080162668-$ or US-20080152165-$ or US-20080077261-$ or US-20080045140-$ or US-20060173972-$ or US-20040015252-$ or US-20020072816-$ or US-20040237750-$).did. or (US-7689305-$ or US-8423893-$ or US-8233635-$ or US-8054987-$ or US-7804972-$ or US-8588432-$ or US-8498726-$ or US-6487296-$ or US-6889207-$ or US-5519641-$ or US-5406634-$ or US-9094706-$ or US-8521316-$ or US-7962482-$ or US-7539551-$).did. or (WO-2014074089-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2016/03/10 10:41
S785	1	S783 and S784	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/10 10:41
S786	41	(US-20080159545-$ or US-20050177256-$ or US-20100153097-$ or US-20090232326-$ or US-20070223725-$ or US-20100052843-$ or US-20100010651-$ or US-20080092204-$ or US-20060229752-$ or US-20060205349-$ or US-20060179160-$ or US-	US-PGPUB; USPAT; DERWENT	OR	ON	2016/03/10 10:41

		20050100174-$ or US-20020098878-$ or US-20020022453-$ or US-20010042107-$ or US-20130103873-$ or US-20120096125-$ or US-20070214229-$ or US-20080162668-$ or US-20080152165-$ or US-20080077261-$ or US-20080045140-$ or US-20060173972-$ or US-20040015252-$ or US-20020072816-$ or US-20040237750-$).did. or (US-8423893-$ or US-8233635-$ or US-8054987-$ or US-7804972-$ or US-8588432-$ or US-8498726-$ or US-6487296-$ or US-6889207-$ or US-5519641-$ or US-5406634-$ or US-9094706-$ or US-8521316-$ or US-7962482-$ or US-7539551-$).did. or (WO-2014074089-$).did.				
S787	86	("20030002689" | "20080144864" | "20110299696" | "5218710" | "6704421" | "8103009" | "8234395" | "20080025535" | "20100052843" | "20100284389" | "20020078161" | "20090024662" | "20130022221" | "5668884" | "5673323" | "6778869" | "6931134" | "20080002839" | "6916980" | "7171010" | "20070003067" | "20030210796" | "5946343" | "20060229752" | "20080162668" | "5553147" | "8045952" | "20080077261" | "20070142944" | "20080175411" | "20110044476" | "7792311" | "20030161479" | "20050147261" | "7571014" | "7643894" | "20100299639").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/03/10 10:42
S792	41	(US-20070047481-$ or US-20050254505-$ or US-20080077261-$ or US-20090228919-$ or US-20030198257-$ or US-20130187767-$ or US-20080066094-$ or US-20100299639-$ or US-20100052843-$ or US-20080025535-$ or US-20020002039-$ or US-20050100174-$ or US-20060229752-$ or US-20030210796-$ or US-20100284389-$ or US-20080162668-$ or US-20060029005-$ or US-20080045140-$ or US-20040223622-$ or US-20050239397-$ or US-20020072816-$ or US-20070223725-$ or US-20120047435-$ or US-	US-PGPUB; USPAT; EPO	OR	ON	2016/03/10 13:49

		20060205349-$).did. or (US-5909183-$ or US-6604023-$ or US-6587127-$ or US-8700730-$ or US-8571237-$ or US-7849181-$ or US-6889207-$ or US-7302468-$ or US-8086287-$ or US-6678014-$ or US-7539551-$ or US-8423893-$ or US-7987294-$ or US-5519641-$ or US-5406634-$ or US-8189824-$).did. or (EP-1098476-$).did.				
S794	1112	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) AND GROUP$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 12:38
S795	10	"619813".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 12:38
S796	2	"20150181336"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 12:40
S797	85654	((G06F3/165 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR H03G3/20 OR H03G1/02 OR H03G7/00 OR H04R2227/005 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04R2420/01 OR H04R2430/01 OR H04S7/30 OR H04H60/80 OR H04N21/43615).CPC. OR (381/17 OR 709/221 OR 709/230 OR 709/231 OR 715/716 OR 715/727 OR 715/734 OR 715/735).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 12:40
S798	292	S794 and S797	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 12:40
S799	290	S798 and (stereo mono monaural left right)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 12:40
S800	4370	plural$4 near3 play$5 near4 (media song title)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 12:48
S801	617	S797 and S800	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:02
S802	6192	second near3 play$5 near4 (media song title)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2016/05/27 13:16

			DERWENT			
S803	1249	S797 and S802	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:16
S804	232	S801 and S803	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:16
S805	28	S799 and S804	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:16
S806	173	S794 and S802	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:17
S807	105	S794 and S802 and S797	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:17
S808	29	S804 and S807	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:17
S809	28	S805 and S808	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:17
S810	104	S799 and S802	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:18
S811	104	S799 and S802 and S797	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:18
S812	28	S799 and S802 and S800	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:19
S813	28	S799 and S802 and S800 AND (LEFT RIGHT)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:19
S814	24	S799 and S802 and S800 AND (LEFT SAME RIGHT)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2016/05/27 13:19

			DERWENT			
S815	37729	detect$6 near3 signal and automat$8 near3 switch$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:26
S816	1152	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:26
S817	155343	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:26

		G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S818	777	S816 and S817	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:26
S819	1	S815 and S818	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/27 13:26
S845	3	"20110137437"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/22 12:16
S846	4	"410690".ap. and obtain$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/22 12:19
S847	3	"20040237750"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/22 13:35
S848	5	"20080045140"	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2016/06/22 13:43

			DERWENT			
S849	12	"552049".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 07:49
S850	5	"552049".ap. and medium	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 07:49
S851	374	automat$6 with (stereo "5.1" sub$3woof$4) with (config$6 set$4up align$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:14
S852	44	automat$6 with (stereo "5.1" sub$3woof$4) with (config$6 set$4up align$5) and $5woof$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:16
S853	61	automat$6 with (stereo "5.1" sub$3woof$4) with (config$6 set$4up align$5) and (amplif$9 and attenua$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:20
S854	19	S852 and S853	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:21
S855	61	automat$6 with (stereo "5.1" sub$3woof$4) with (config$6 set$4up align$5) and (amplif$9 attenua$6) and S853	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:21
S856	61	S853 and S855	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:22
S857	38	automat$6 with (stereo "5.1" sub$3woof$4) with (config$6 set$4up align$5) and (amplif$9 attenua$6) and S852	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:22
S858	1	automat$6 with (stereo "5.1" sub$3woof$4) with (acoustic$6 room) near4 (config$6 set$4up align$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:24
S859	77	$5speaker and (stereo "5.1" sub$3woof$4) with (acoustic$6 room) near4 (config$6 set$4up align$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:25
S860	649	(stereo "5.1" sub$3woof$4) with (acoustic$6 room $6speaker) near4 (config$6 set$4up align$5)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2016/06/23 11:25

			DERWENT			
S861	77	S859 and S860	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:25
S862	2	isley.in. and room and $6speaker	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:29
S863	12	"384264".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:37
S864	9	("20080247554" | "6487296" | "6608907" | "8126182").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:38
S865	3	"20050031135"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 11:42
S866	21	("20020196951" | "20030026438" | "20030031333" | "20030058786" | "20030179891" | "20060153403" | "4638505" | "4888809" | "5384855" | "5581626" | "5617480" | "5638343" | "5717465" | "5745586" | "5870484" | "6031920" | "6061648" | "6195435" | "6611603" | "7184556" | "7266207").PN. OR ("8705755").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/06/23 11:44
S867	8	("20120128166" | "7912225" | "20110164188" | "20110221656" | "20120093320" | "20120093320" | "20110157327" | "20070116306" | "20110157327" | "20120093320" | "6243476").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/06/23 11:49
S868	194	("20020026442" | "20030020763" | "6611537" | "7571014" | "7657910" | "7761176" | "7817960" | "7853341" | "8135141" | "8233635" | "8239559" | "000None" | "5406634" | "6522886" | "7483538" | "7539551" | "20080066094" | "5923902" | "6404811" | "6778869" | "7558224" | "7643894" | "7689305" | "8234395" | "20080242222" | "20020124097" | "5519641" | "6604023" | "7218708" | "7561932" | "8054987" | "8423893" | "8588432" | "20100299639" | "20020002039" | "20020022453" | "20100042107" | "6757517" | "6889207" | "8014423" | "8700730" | "8886347" | "20130253679" | "6587127" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 12:04

		"7187947" | "7626952" | "7668990" | "7742832" | "7804972" | "7805210" | "7849181" | "8045952" | "8103009" | "8290603" | "8483853" | "7346332" | "8843228" | "20020098878" | "20020143547" | "5182552" | "6256554" | "6631410" | "7130608" | "7130616" | "7302468" | "7962482" | "8086287" | "8762565" | "8965544" | "9245514" | "20020003548" | "20020072816" | "5946343" | "6487296" | "7143939" | "7236773" | "8189824" | "8498726" | "8788080").PN.				
S869	0	("20020026442" | "20030020763" | "6611537" | "7571014" | "7657910" | "7761176" | "7817960" | "7853341" | "8135141" | "8233635" | "8239559" | "000None" | "5406634" | "6522886" | "7483538" | "7539551" | "20080066094" | "5923902" | "6404811" | "6778869" | "7558224" | "7643894" | "7689305" | "8234395" | "20080242222" | "20020124097" | "5519641" | "6604023" | "7218708" | "7561932" | "8054987" | "8423893" | "8588432" | "20100299639" | "20020002039" | "20020022453" | "20100042107" | "6757517" | "6889207" | "8014423" | "8700730" | "8886347" | "20130253679" | "6587127" | "7187947" | "7626952" | "7668990" | "7742832" | "7804972" | "7805210" | "7849181" | "8045952" | "8103009" | "8290603" | "8483853" | "7346332" | "8843228" | "20020098878" | "20020143547" | "5182552" | "6256554" | "6631410" | "7130608" | "7130616" | "7302468" | "7962482" | "8086287" | "8762565" | "8965544" | "9245514" | "20020003548" | "20020072816" | "5946343" | "6487296" | "7143939" | "7236773" | "8189824" | "8498726" | "8788080").PN. and (zacchi korhonen baudino).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 12:04
S870	2	("20020026442" | "20030020763" | "6611537" | "7571014" | "7657910" | "7761176" | "7817960" | "7853341" | "8135141" | "8233635" | "8239559" | "000None" | "5406634" | "6522886" | "7483538" | "7539551" | "20080066094" | "5923902" | "6404811" | "6778869" | "7558224" | "7643894" | "7689305" | "8234395" | "20080242222" | "20020124097" | "5519641" | "6604023" | "7218708" | "7561932" | "8054987" | "8423893" | "8588432" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 12:04

		"20100299639" | "20020002039" | "20020022453" | "20100042107" | "6757517" | "6889207" | "8014423" | "8700730" | "8886347" | "20130253679" | "6587127" | "7187947" | "7626952" | "7668990" | "7742832" | "7804972" | "7805210" | "7849181" | "8045952" | "8103009" | "8290603" | "8483853" | "7346332" | "8843228" | "20020098878" | "20020143547" | "5182552" | "6256554" | "6631410" | "7130608" | "7130616" | "7302468" | "7962482" | "8086287" | "8762565" | "8965544" | "9245514" | "20020003548" | "20020072816" | "5946343" | "6487296" | "7143939" | "7236773" | "8189824" | "8498726" | "8788080").PN. and (zacchi korhonen baudino wijeratne).in.				
S871	281	("20020072816" | "20050131558" | "20080144861" | "7742832" | "8234395" | "20130293345" | "20020098878" | "20100052843" | "8498726" | "20050177256" | "20070223725" | "20040117044" | "20050144284" | "20070288610" | "20080045140" | "20080066094" | "20080077261" | "6778869" | "7130608" | "8700730" | "6522886" | "6611537" | "7143939" | "7689305" | "8233635" | "8423893" | "8588432" | "8135141" | "20020002039" | "20030167335" | "20060149402" | "7558224" | "7571014" | "7626952" | "8483853" | "7130616" | "20070223725" | "8054987" | "20040220687" | "20050100174" | "5519641" | "20030177889" | "20080025535" | "6631410" | "7187947" | "7761176" | "20090097672" | "5923902" | "7853341" | "8103009" | "20100010651" | "20100153097" | "5519641" | "6889207" | "7804972" | "20040147224" | "20060205349" | "20100299639" | "6889207" | "7561932" | "20030020763" | "20040223622" | "20050289224" | "20050289244" | "20060041616" | "20070142022" | "20080152165" | "5946343" | "7668990" | "8788080" | "20020022453" | "20030157951" | "20040024478" | "6256554" | "7236773" | "5406634" | "20100052843" | "20120047435" | "20020003548" | "20040010727" | "20040225389" | "20050021470" | "20050254505" | "20090228919" | "5182552" | "7218708" | "7805210" | "7849181" | "7962482" | "8045952" | "8189824" | "20080162668" | "20010042107" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 12:06

		"6404811" | "7657910" | "8014423" | "7483538" | "20050177256" | "6487296" | "7346332" | "8423893" | "20070142944" | "20070189544" | "6604023" | "20020026442" | "20130253679" | "20020143547" | "20060179160" | "20060229752" | "20080092204" | "20100284389" | "20020124097" | "20030198257" | "20040015252" | "20040131192" | "20050002535" | "6587127" | "7539551" | "7643894" | "8239559" | "8290603" | "20080066120" | "7302468" | "7817960" | "6757517" | "20050100174" | "20060179160" | "20060205349" | "20060229752" | "20080092204" | "20080159545" | "20090232326" | "20020098878" | "20100010651" | "5406634" | "8086287").PN.				
S872	8	S871 and (zacchi korhonen baudino wijeratne).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 12:06
S873	42	wireless with network with magic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 12:06
S874	26	("2008/0077261").URPN.	USPAT	OR	ON	2016/06/23 12:10
S875	11	baudino.in. and motorola.as.	USPAT	OR	ON	2016/06/23 12:10
S876	100	baudino.in. and motorola.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 12:10
S877	110	("20140068434" | "8046797" | "20030023973" | "20040044525" | "20110137724" | "20130124596" | "20140172140" | "20070294622" | "20080144860" | "20060143647" | "8028314" | "8892426" | "5689641" | "8200962" | "20100094867" | "20050237377" | "8965544" | "8595624" | "8611559" | "6457010" | "8302127" | "8774955" | "20050248652" | "20070169165" | "20150207478" | "20050283797" | "20120291053" | "20140328500" | "20080243609" | "20100146085" | "20140189139" | "8655307" | "20110113337" | "20130345840" | "4306113" | "8429243" | "8533166" | "20060210097" | "20130238996" | "20140074621" | "20050043831" | "8146126" | "20070089127" | "20140371889" | "20060291666" | "8533166").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 17:35
S878	6	("20140068434" | "8046797" |	US-	OR	ON	2016/06/23

		"20030023973" | "20040044525" | "20110137724" | "20130124596" | "20140172140" | "20070294622" | "20080144860" | "20060143647" | "8028314" | "8892426" | "5689641" | "8200962" | "20100094867" | "20050237377" | "8965544" | "8595624" | "8611559" | "6457010" | "8302127" | "8774955" | "20050248652" | "20070169165" | "20150207478" | "20050283797" | "20120291053" | "20140328500" | "20080243609" | "20100146085" | "20140189139" | "8655307" | "20110113337" | "20130345840" | "4306113" | "8429243" | "8533166" | "20060210097" | "20130238996" | "20140074621" | "20050043831" | "8146126" | "20070089127" | "20140371889" | "20060291666" | "8533166").PN. and (ball yerrace hii$9).in.	PGPUB; USPAT; EPO; JPO; DERWENT			17:36
S879	45	"6122331"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/23 18:01
S880	0	mccord and "chung.in"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:44
S881	22	mccord and chung.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:44
S882	1	mccord.xp. and chung.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:44
S883	37	mondo.as. and chung.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:44
S884	0	mondo.as. and chung.in. and automatic$6 with (increas$5 amplif$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:44
S885	12	mondo.as. and chung.in. and automatic$6 same (increas$5 amplif$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:45
S886	0	mondo.as. and chung.in. and automatic$6 same (increas$5 amplif$9) same ($6woof$6 bass)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2016/06/24 14:45

			DERWENT			
S887	12	mondo.as. and chung.in. and automatic$6 same (increas$5 amplif$9) and ($6woof$6 bass)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:45
S888	10807	mondo.as. and chung.in. and automatic$6 same (increas$5 amplif$9)(increas$5 amplif$9) same ($6woof$6 bass)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:46
S889	12	mondo.as. and chung.in. and automatic$6 same (increas$5 amplif$9) and(increas$5 amplif$9) same ($6woof$6 bass)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:47
S890	45	automat$8 with (config$6 align$7 set$4) with $4woof$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:54
S891	21	automat$8 with (config$6 align$7 set$4) with $4woof$4 same (amp amplif$9 gain volume)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 14:57
S892	0	automat$8 with (increas$6) with $4woof$4 same (amp amplif$9 gain volume)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 15:01
S893	13	automat$8 with (increas$6) with (bass $4woof$4) same (amp amplif$9 gain volume)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 15:01
S894	3	("2013/0305152").URPN.	USPAT	OR	ON	2016/06/24 15:21
S895	65	("8234395" | "20040024478" | "20050069153" | "20140192986" | "8527876" | "20080144864" | "20120051558" | "20140016784" | "20140016802" | "20150201274" | "7490044" | "8063698" | "8160281" | "8306235" | "8977974" | "6778869" | "20020022453" | "6522886" | "6611537" | "7143939" | "20070032895" | "6674864" | "20090011798" | "20130022221" | "20140016786" | "20140226823" | "20140294200" | "20150220302" | "4696037" | "7519188" | "8331585" | "8879761" | "8914559" | "7130608" | "7130616" | "20090180632" | "20130259254" | "6809635" | "20020026442" | "20030157951" | "5923902" | "20060050896" | "6771784" | "7853341" | "8103009" | "20050201549" | "20070003067" | "20110170710" | "20120051567" |	USPAT	OR	ON	2016/06/24 15:22

		"20130010970" | "20140219456" | "6882335" | "7072477" | "8175292" | "8243961" | "8984442" | "6256554" | "7236773" | "6681019" | "20140355768" | "5910991" | "7630500" | "8045952" | "20010042107" | "6404811" | "7657910" | "8014423" | "7483538" | "20120148075" | "20140219483" | "20110002487" | "20130129122" | "20140023196" | "20140112481" | "20140355794" | "20150146886" | "4995778" | "5553147" | "8229125" | "8452020" | "8620006" | "8934655" | "9042556" | "20070142944" | "4908868" | "20070265031" | "20120263325" | "20130028443" | "8233632" | "8238578" | "8265310" | "8290185" | "8325935" | "8391501" | "8577045" | "7571014" | "7643894" | "20020124097" | "6631410" | "6757517" | "20130202131" | "8989406" | "20060050896" | "20040023697" | "20080146289" | "20100142735" | "20120127831" | "20150063610" | "20150281866" | "8139774" | "8600075" | "8855319" | "8934647" | "8965546" | "9020153").PN.				
S896	253	("8234395" | "20040024478" | "20050069153" | "20140192986" | "8527876" | "20080144864" | "20120051558" | "20140016784" | "20140016802" | "20150201274" | "7490044" | "8063698" | "8160281" | "8306235" | "8977974" | "6778869" | "20020022453" | "6522886" | "6611537" | "7143939" | "20070032895" | "6674864" | "20090011798" | "20130022221" | "20140016786" | "20140226823" | "20140294200" | "20150220302" | "4696037" | "7519188" | "8331585" | "8879761" | "8914559" | "7130608" | "7130616" | "20090180632" | "20130259254" | "6809635" | "20020026442" | "20030157951" | "5923902" | "20060050896" | "6771784" | "7853341" | "8103009" | "20050201549" | "20070003067" | "20110170710" | "20120051567" | "20130010970" | "20140219456" | "6882335" | "7072477" | "8175292" | "8243961" | "8984442" | "6256554" | "7236773" | "6681019" | "20140355768" | "5910991" | "7630500" | "8045952" | "20010042107" | "6404811" | "7657910" | "8014423" | "7483538" | "20120148075" | "20140219483" | "20110002487" | "20130129122" | "20140023196" | "20140112481" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 15:22

		"20140355794" | "20150146886" | "4995778" | "5553147" | "8229125" | "8452020" | "8620006" | "8934655" | "9042556" | "20070142944" | "4908868" | "20070265031" | "20120263325" | "20130028443" | "8233632" | "8238578" | "8265310" | "8290185" | "8325935" | "8391501" | "8577045" | "7571014" | "7643894" | "20020124097" | "6631410" | "6757517" | "20130202131" | "8989406" | "20060050896" | "20040023697" | "20080146289" | "20100142735" | "20120127831" | "20150063610" | "20150281866" | "8139774" | "8600075" | "8855319" | "8934647" | "8965546" | "9020153").PN.				
S897	68	genelec.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 15:24
S898	16	genelec.as. and settings	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 15:25
S899	7	genelec.as. and settings same measur$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 15:25
S900	10	"038495".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 15:26
S901	10	("20050175195" | "20070142942" | "20080318629" | "20090269036" | "20110002471" | "20110033056" | "20120201393" | "6859538" | "7099481" | "8189816").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/06/24 15:33
S902	2	"20060294569" and automatic$6 same (increas$5 amplif$9) and ($6woof$6 bass)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/24 16:26
S903	195	("20020026442" | "20030020763" | "6611537" | "7571014" | "7657910" | "7761176" | "7817960" | "7853341" | "8135141" | "8233635" | "8239559" | "000None" | "5406634" | "6522886" | "7483538" | "7539551" | "20080066094" | "5923902" | "6404811" | "6778869" | "7558224" | "7643894" | "7689305" | "8234395" | "20080242222" | "20020124097" | "5519641" | "6604023" | "7218708" | "7561932" | "8054987" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/06/25 10:08

		"8423893" | "8588432" | "20100299639" | "20020002039" | "20020022453" | "20100042107" | "6757517" | "6889207" | "8014423" | "8700730" | "8886347" | "20130253679" | "6587127" | "7187947" | "7626952" | "7668990" | "7742832" | "7804972" | "7805210" | "7849181" | "8045952" | "8103009" | "8290603" | "8483853" | "7346332" | "8843228" | "20020098878" | "20020143547" | "5182552" | "6256554" | "6631410" | "7130608" | "7130616" | "7302468" | "7962482" | "8086287" | "8762565" | "8965544" | "9245514" | "20020003548" | "20020072816" | "5946343" | "6487296" | "7143939" | "7236773" | "8189824" | "8498726" | "8788080").PN.				
S952	12	"552049".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 10:50
S953	1	"552049".ap. and playback adj device	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 10:50
S954	5	"20110016405" "20080216125"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:00
S955	5	S954 and (limit$6 max$4 min$4 optim$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:01
S956	6	"904678".ap. and (cover$5 thresh$6 distance)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:02
S957	0	"904678".ap. and (cover$5 same (less radio distance))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:08
S958	1	"904678".ap. and (cover$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:09
S959	7	"904678".ap. and (cover$5 less)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:10

S960	5	("4,254,303" "20060002572").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:25
S961	7	("158990").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:25
S962	2	"20150205577"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:26
S963	1	"20150205577" and (range same speech)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:31
S964	1	"20150205577" and (range same speech) and outside	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:31
S965	0	"20150205577" and (hz hertz khz)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:32
S966	1	"20150205577" and (frequency same speech) and outside	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:32
S967	5135	speech near3 intelligib$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:42
S968	119	S967 and paus$6 with (present$6 media audio display video av multimedia $4media)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:43
S969	0	S967 and paus$6 with (present$6 media audio display video av multimedia $4media) and dialnorm	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:43
S970	108	S967 and paus$6 with (present$6 media audio display video av multimedia $4media) and frequency	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:46
S971	61	S967 and paus$6 with (present$6 media audio display video av multimedia $4media) and frequency with ($5width range)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:47

S972	0	skype and eljaiek	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:47
S973	0	("2014/0309991").URPN.	USPAT	OR	OFF	2016/09/08 13:50
S974	1	"8670986"	USPAT	OR	OFF	2016/09/08 13:50
S975	5	"803291".ap.	USPAT	OR	OFF	2016/09/08 13:50
S976	11	"803291".ap.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2016/09/08 13:51
S977	4	("2011/0112668").URPN.	USPAT	OR	OFF	2016/09/08 13:56
S978	0	("2011/0112668").URPN. and paus$6	USPAT	OR	OFF	2016/09/08 13:57
S979	11	"8977974"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:58
S980	10	"8977974" and paus$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:58
S981	2	"158990".ap. and interrupt$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 13:59
S982	3	"20110043617"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/08 14:04
S983	1	"552049".ap. and playback near3 device	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/09 13:05
S984	87	("20030002689" | "20080144864" | "20110299696" | "5218710" | "6704421" | "8103009" | "8234395" | "20080025535" | "20100052843" | "20100284389" | "20020078161" | "20090024662" | "20130022221" | "5668884" | "5673323" | "6778869" | "6931134" | "20080002839" | "6916980" | "7171010" | "20070003067" | "20030210796" | "5946343" | "20060229752" | "20080162668" | "5553147" | "8045952" | "20080077261" | "20070142944" | "20080175411" | "20110044476" | "7792311" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/09 13:20

		"20030161479" | "20050147261" | "7571014" | "7643894" | "20100299639").PN.				
S985	2	("20030002689" | "20080144864" | "20110299696" | "5218710" | "6704421" | "8103009" | "8234395" | "20080025535" | "20100052843" | "20100284389" | "20020078161" | "20090024662" | "20130022221" | "5668884" | "5673323" | "6778869" | "6931134" | "20080002839" | "6916980" | "7171010" | "20070003067" | "20030210796" | "5946343" | "20060229752" | "20080162668" | "5553147" | "8045952" | "20080077261" | "20070142944" | "20080175411" | "20110044476" | "7792311" | "20030161479" | "20050147261" | "7571014" | "7643894" | "20100299639").PN. and baudino	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/09 13:20
S986	5	("20030002689" | "20080144864" | "20110299696" | "5218710" | "6704421" | "8103009" | "8234395" | "20080025535" | "20100052843" | "20100284389" | "20020078161" | "20090024662" | "20130022221" | "5668884" | "5673323" | "6778869" | "6931134" | "20080002839" | "6916980" | "7171010" | "20070003067" | "20030210796" | "5946343" | "20060229752" | "20080162668" | "5553147" | "8045952" | "20080077261" | "20070142944" | "20080175411" | "20110044476" | "7792311" | "20030161479" | "20050147261" | "7571014" | "7643894" | "20100299639").PN. and (shdema korhonen baudino)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/09 13:20
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S990	11	"806070".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/27 10:43
S991	527	S987 S988 S989	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/27 10:48
S992	3	S991 and bryce.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/27 10:48
S993	256	("20010050991" | "20020078161" | "20020137505" | "20020196951" | "20030002689" | "20030031333" | "20030161479" | "20030185400" | "20040014426" | "20040037433" | "20040042629" | "20040171346" | "20040249490" | "20050031135" | "20050069153" | "20050147261" | "20060193482" | "20060294569" | "20070003067" | "20070071255" | "20070087686" | "20080065232" | "20080075295" | "20080144864" | "20080247554" | "20090070434" | "20090180632" | "20100067716" | "20100142735" | "20100290643" | "20110044476" | "20110110533" |	US-PGPUB; USPAT	OR	OFF	2016/10/29 10:35

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S996	527	S993 S994 S995	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/29 10:35
S997	13	S996 and (bryce zacchi baudino)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/29 10:36
S998	2	"20060253210"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/29 10:47
S999	1	"20060253210" and zero	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/29 10:49
S1000	0	"20060253210" and zero same cross$6	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2016/10/29 10:49

			DERWENT			
S1001	1	"20060253210" and zero and cross$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/29 10:49
S1002	1	("1705588" "2014109982") and zero and cross$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/29 10:50
S1003	11	("1705588" "2014109982")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/29 10:50
S1004	4	("20150366509" "7790976" "7737353") and zero and cross$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/10/29 10:51
S1005	262	("20130243199" | "20010043456" | "20010050991" | "20020072816" | "20020072817" | "20020078293" | "20020101357" | "20020124097" | "20020131761" | "20020137505" | "20020165921" | "20030014486" | "20030043856" | "20030063755" | "20030103088" | "20030167335" | "20030179780" | "20030185400" | "20030198257" | "20030212802" | "20030219007" | "20030231208" | "20040001591" | "20040014426" | "20040019807" | "20040037433" | "20040042629" | "20040059842" | "20040117462" | "20040168081" | "20040171346" | "20040177167" | "20040183827" | "20040185773" | "20040203590" | "20040223622" | "20040249490" | "20040253969" | "20050060435" | "20050131558" | "20050154766" | "20050160270" | "20050197725" | "20060072489" | "3956591" | "4105974" | "4306114" | "4509211" | "4530091" | "4701629" | "4731814" | "4824059" | "4845751" | "4994908" | "5086385" | "5151922" | "5182552" | "5237327" | "5272757" | "5361381" | "5372441" | "5406634" | "5430485" | "5440644" | "5457448" | "5481251" | "5515345" | "5553314" | "5625350" | "5640388" | "5661665" | "5740235" | "5742623" | "5761320" | "5774016" | "5790543" | "5812201" | "5818948" | "5832024" | "5848152" | "5852722" | "5875233" | "5905768" | "5946343" | "5956025" | "5960006" | "5984512" | "5987611" | "5990884" | "5991307" | "5999906" | "6018376"	US-PGPUB; USPAT	OR	ON	2017/01/03 10:13

		| "6029196" | "6038614" | "6046550" | "6061457" | "6081266" | "6088063" | "6101195" | "6127941" | "6148205" | "6169725" | "6181383" | "6195435" | "6212282" | "6246701" | "6269406" | "6301012" | "6310652" | "6313879" | "6321252" | "6353172" | "6356871" | "6418150" | "6442443" | "6449642" | "6456783" | "6463474" | "6466832" | "6469633" | "6487296" | "6493832" | "6535121" | "6636269" | "6653899" | "6654720" | "6654956" | "6684060" | "6704421" | "6741961" | "6778073" | "6816510" | "6826283" | "6859460" | "6859538" | "6873862" | "6901439" | "6915347" | "6919771" | "6931557" | "6937988" | "6987767" | "7046677" | "7092528" | "7092694" | "7096169" | "7120168" | "7130316" | "7136934" | "7139981" | "7146260" | "7161939" | "7197148" | "7206618" | "7260616" | "7263110" | "7277547" | "7289631" | "7295548" | "7305694" | "7308188" | "7324857" | "7356011" | "7366206" | "7428310" | "7430181" | "7457948" | "7472058" | "7492912" | "7505889" | "7548744" | "7548851" | "7558224" | "7558635" | "7627825" | "7630501" | "7653344" | "7675943" | "7676044" | "7676142" | "7688306" | "7721032" | "7746906" | "7761176" | "7831054" | "7853341" | "7882234" | "7933418" | "7945636" | "7945708" | "7966388" | "7987294" | "7995732" | "8041062" | "8050203" | "8150079" | "8170222" | "8233029" | "8311226" | "8374595" | "8411883" | "8442239" | "8477958" | "8565455" | "8600084" | "8654995" | "8861739" | "8942395" | "D260764" | "D279779" | "D293671" | "D301037" | "D304443" | "D313023" | "D313398" | "D313600" | "D320598" | "D322609" | "D326450" | "D327060" | "D331388" | "D333135" | "D350531" | "D350962" | "D354059" | "D354751" | "D356093" | "D356312" | "D357024" | "D362446" | "D363933" | "D364877" | "D364878" | "D365102" | "D366044" | "D372716" | "D377651" | "D379816" | "D380752" | "D382271" | "D384940" | "D387352" | "D388792" |					

		"D389143" | "D392641" | "D393628" | "D394659" | "D395889" | "D397996" | "D401587" | "D404741" | "D405071" | "D406847" | "D407071" | "D410927" | "D412337" | "D415496" | "D416021" | "D420006" | "D429246" | "D430143" | "D431552").PN.				
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		| "5361381" | "5553147" | "5668884" | "5673323" | "5910991" | "6195435" | "6212282" | "6704421" | "6859538" | "6916980" | "6931134" | "6987947" | "7072477" | "7096169" | "7171010" | "7428310" | "7490044" | "7492912" | "7519188" | "7548851" | "7630500" | "7653344" | "7792311" | "7987294" | "8050203" | "8063698" | "8139774" | "8160281" | "8175292" | "8229125" | "8233632" | "8238578" | "8243961" | "8265310" | "8290185" | "8306235" | "8325935" | "8331585" | "8391501" | "8442239" | "8452020" | "8577045" | "8600075" | "8620006" | "8843224" | "8855319" | "8879761" | "8914559" | "8923997" | "8934647" | "8934655" | "8965546" | "8977974" | "8984442" | "9020153" | "9042556" | "9226073" | "9325286" | "20020196951" | "20030031333" | "20050031135" | "20050069153" | "20060294569" | "20080247554" | "20090060219" | "20090169030" | "20090180632" | "4382158" | "5761320" | "7136934" | "9219959" | "20080242222" | "9245514" | "8762565" | "8965544" | "20080159545" | "20090232326" | "20100153097" | "6487296" | "7689305" | "7804972" | "8054987" | "8233635" | "8498726" | "8588432" | "8843228" | "8886347" | "20010042107" | "20020002039" | "20020003548" | "20020022453" | "20020026442" | "20020072816" | "20020098878" | "20020124097" | "20020143547" | "20030020763" | "20030157951" | "20030167335" | "20030177889" | "20030198257" | "20040010727" | "20040015252" | "20040024478" | "20040117044" | "20040131192" | "20040147224" | "20040220687" | "20040223622" | "20040225389" | "20050002535" | "20050021470" | "20050100174" | "20050131558" | "20050144284" | "20050177256" | "20050254505" | "20050289224" | "20050289244" | "20060041616" | "20060149402" | "20060179160" | "20060205349" | "20060229752").PN.				
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		"20100284389" | "20100299639" | "20120047435" | "20130253679" | "20130293345" | "5182552" | "5406634" | "5519641" | "5923902" | "5946343" | "6256554" | "6404811" | "6522886" | "6587127" | "6604023" | "6611537" | "6631410" | "6757517" | "6778869" | "6889207" | "7130608" | "7130616" | "7143939" | "7187947" | "7218708" | "7236773" | "7302468" | "7346332" | "7483538" | "7539551" | "7558224" | "7561932" | "7571014" | "7626952" | "7643894" | "7657910" | "7668990" | "7742832" | "7761176" | "7805210" | "7817960" | "7849181" | "7853341" | "7962482" | "8014423" | "8045952" | "8086287" | "8103009" | "8135141" | "8189824" | "8234395" | "8239559" | "8290603" | "8423893" | "8483853" | "8700730" | "8788080").PN.				
S1008	528	S1005 S1006 S1007	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/01/03 10:19
S1009	16	S1008 and shdema	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/01/03 10:19
S1010	134	("7324857" "7263110" "20020124097" "20050131558" "20030014486" "20040223622" "7295548" "6684060" "20040014426" "20070087686" "7987294" "6487296" "20040037433" "5361381" "7853341" "7653344" "7324857" "7263110" "20020124097" "20050131558" "20040223622" "7295548" "6684060" "7630501" "8600084" "8942395" "7987294" "7688306" "8150079" "8565455" "8374595" "6901439" "20030212802" "7305694" "20040168081" "7356011" "727754720030014486" "20040223622" "7295548" "6684060" "20070087686" "20040014426" "6487296" "20040037433" "5361381" "7853341" "8653344" "7987294" "4824059" "7095528" "5818948" "5151922" "6919771" "20010043456" "4731814" "5774016" "8654995" "20040185773" "7308188" "6535121" "5440644" "7324857" "7987294" "20020124097"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/01/03 10:41

		"20050131558" "20030014484" "7627825" "6469633" "5761320" "6469633" "6826283" "5182552" "20020072816" "20030103088" "7197148" "5182552" "6469633" "20020072816" "6931557").pn.				
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		"6442443" | "6449642" | "6456783" | "6463474" | "6466832" | "6469633" | "6487296" | "6493832" | "6535121" | "6636269" | "6653899" | "6654720" | "6654956" | "6684060" | "6704421" | "6741961" | "6778073" | "6816510" | "6826283" | "6859460" | "6859538" | "6873862" | "6901439" | "6915347" | "6919771" | "6931557" | "6937988" | "6987767" | "7046677" | "7092528" | "7092694" | "7096169" | "7120168" | "7130316" | "7136934" | "7139981" | "7146260" | "7161939" | "7197148" | "7206618" | "7260616" | "7263110" | "7277547" | "7289631" | "7295548" | "7305694" | "7308188" | "7324857" | "7356011" | "7366206" | "7428310" | "7430181" | "7457948" | "7472058" | "7492912" | "7505889" | "7548744" | "7548851" | "7558224" | "7558635" | "7627825" | "7630501" | "7653344" | "7675943" | "7676044" | "7676142" | "7688306" | "7721032" | "7746906" | "7761176" | "7831054" | "7853341" | "7882234" | "7933418" | "7945636" | "7945708" | "7966388" | "7987294" | "7995732" | "8041062" | "8050203" | "8150079" | "8170222" | "8233029" | "8311226" | "8374595" | "8411883" | "8442239" | "8477958" | "8565455" | "8600084" | "8654995" | "8861739" | "8942395" | "D260764" | "D279779" | "D293671" | "D301037" | "D304443" | "D313023" | "D313398" | "D313600" | "D320598" | "D322609" | "D326450" | "D327060" | "D331388" | "D333135" | "D350531" | "D350962" | "D354059" | "D354751" | "D356093" | "D356312" | "D357024" | "D362446" | "D363933" | "D364877" | "D364878" | "D365102" | "D366044" | "D372716" | "D377651" | "D379816" | "D380752" | "D382271").PN.				
S1027	237	("D384940" | "D387352" | "D388792" | "D389143" | "D392641" | "D393628" | "D394659" | "D395889" | "D397996" | "D401587" | "D404741" | "D405071" | "D406847" | "D407071" | "D410927" | "D412337" | "D415496" | "D416021" | "D420006" | "D429246" |	US-PGPUB; USPAT	OR	ON	2017/02/17 12:00

		"D430143" | "D431552" | "D432525" | "D444475" | "D452520" | "D462339" | "D462340" | "D462945" | "D466108" | "D468297" | "D474763" | "D475993" | "D476643" | "D477310" | "D478051" | "D478069" | "D478896" | "D479520" | "D481056" | "D486145" | "D491925" | "D493148" | "D495333" | "D496003" | "D496005" | "D496335" | "D497363" | "D499086" | "D499395" | "D499718" | "D500015" | "D501477" | "D504872" | "D504885" | "D506463" | "D515072" | "D515557" | "D518475" | "D524296" | "D527375" | "20010050991" | "20020078161" | "20020137505" | "20030002689" | "20030161479" | "20030185400" | "20040014426" | "20040037433" | "20040042629" | "20040171346" | "20040249490" | "20050147261" | "20060193482" | "20070003067" | "20070071255" | "20070087686" | "20080065232" | "20080075295" | "20080144864" | "20090070434" | "20100067716" | "20100142735" | "20100290643" | "20110044476" | "20110110533" | "20110170710" | "20110299696" | "20120051558" | "20120127831" | "20120148075" | "20120263325" | "20130010970" | "20130028443" | "20130051572" | "20130129122" | "20130259254" | "20130305152" | "20140016784" | "20140016786" | "20140016802" | "20140023196" | "20140112481" | "20140219456" | "20140226823" | "20140294200" | "20140355768" | "20140355794" | "20150063610" | "20150146886" | "20150201274" | "20150281866" | "20150365987" | "4845751" | "4995778" | "5272757" || "5361381" | "5553147" | "5668884" | "5673323" | "5910991" || "6195435" | "6212282" | "6704421" | "6859538" | "6916980" || "6931134" | "6987947" | "7072477" | "7096169" | "7171010" || "7428310" | "7490044" | "7492912" | "7519188" | "7548851" || "7630500" | "7653344" | "7792311" | "7987294" | "8050203" || "8063698" | "8139774" | "8160281" | "8175292" | "8229125" || "8233632" | "8238578" | "8243961" | "8265310" | "8290185" || "8306235" | "8325935" | "8331585" | "8391501" | "8442239" || "8452020" | "8577045" |				

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		| "7962482" | "8014423" | "8045952" | "8086287" | "8103009" | "8135141" | "8189824" | "8234395" | "8239559" | "8290603" | "8423893" | "8483853" | "8700730" | "8788080" | "8843228" | "8886347").PN.				
S1090	262	("4712105" | "7710941" | "20120051567" | "20010043456" | "20010050991" | "20020072816" | "20020072817" | "20020078293" | "20020101357" | "20020124097" | "20020131761" | "20020137505" | "20020165921" | "20030014486" | "20030043856" | "20030063755" | "20030103088" | "20030167335" | "20030179780" | "20030185400" | "20030198257" | "20030212802" | "20030219007" | "20030231208" | "20040001591" | "20040014426" | "20040019807" | "20040037433" | "20040042629" | "20040059842" | "20040117462" | "20040168081" | "20040171346" | "20040177167" | "20040183827" | "20040185773" | "20040203590" | "20040223622" | "20040249490" | "20040253969" | "20050060435" | "20050131558" | "20050154766" | "20050160270" | "20050197725" | "20060072489" | "3956591" | "4105974" | "4306114" | "4509211" | "4530091" | "4701629" | "4731814" | "4824059" | "4845751" | "4994908" | "5086385" | "5151922" | "5182552" | "5237327" | "5272757" | "5361381" | "5372441" | "5406634" | "5430485" | "5440644" | "5457448" | "5481251" | "5515345" | "5553314" | "5625350" | "5640388" | "5661665" | "5740235" | "5742623" | "5761320" | "5774016" | "5790543" | "5812201" | "5818948" | "5832024" | "5848152" | "5852722" | "5875233" | "5905768" | "5946343" | "5956025" | "5960006" | "5984512" | "5987611" | "5990884" | "5991307" | "5999906" | "6018376" | "6029196" | "6038614" | "6046550" | "6061457" | "6081266" | "6088063" | "6101195" | "6127941" | "6148205" | "6169725" | "6181383" | "6195435" | "6212282" | "6246701" | "6269406" | "6301012" | "6310652" | "6313879" | "6321252" | "6353172" | "6356871" | "6418150" | "6442443" | "6449642" | "6456783" | "6463474" | "6466832" | "6469633" | "6487296" | "6493832" | "6535121" | "6636269" | "6653899" | "6654720" | "6654956" | "6684060" | "6704421" |	US-PGPUB; USPAT	OR	ON	2017/02/28 11:59

		"6741961" | "6778073" | "6816510" | "6826283" | "6859460" | "6859538" | "6873862" | "6901439" | "6915347" | "6919771" | "6931557" | "6937988" | "6987767" | "7046677" | "7092528" | "7092694" | "7096169" | "7120168" | "7130316" | "7136934" | "7139981" | "7146260" | "7161939" | "7197148" | "7206618" | "7260616" | "7263110" | "7277547" | "7289631" | "7295548" | "7305694" | "7308188" | "7324857" | "7356011" | "7366206" | "7428310" | "7430181" | "7457948" | "7472058" | "7492912" | "7505889" | "7548744" | "7548851" | "7558224" | "7558635" | "7627825" | "7630501" | "7653344" | "7675943" | "7676044" | "7676142" | "7688306" | "7721032" | "7746906" | "7761176" | "7831054" | "7853341" | "7882234" | "7933418" | "7945636" | "7945708" | "7966388" | "7987294" | "7995732" | "8041062" | "8050203" | "8150079" | "8170222" | "8233029" | "8311226" | "8374595" | "8411883" | "8442239" | "8477958" | "8565455" | "8600084" | "8654995" | "8861739" | "8942395" | "D260764" | "D279779" | "D293671" | "D301037" | "D304443" | "D313023" | "D313398" | "D313600" | "D320598" | "D322609" | "D326450" | "D327060" | "D331388" | "D333135" | "D350531" | "D350962" | "D354059" | "D354751" | "D356093" | "D356312" | "D357024" | "D362446" | "D363933" | "D364877" | "D364878" | "D365102" | "D366044" | "D372716" | "D377651" | "D379816" | "D380752" | "D382271" | "D384940" | "D387352" | "D388792" | "D389143" | "D392641" | "D393628" | "D394659" | "D395889" | "D397996" | "D401587" | "D404741" | "D405071" | "D406847" | "D407071" | "D410927" | "D412337" | "D415496" | "D416021" | "D420006" | "D429246").PN.				
S1091	143	("D430143" | "D431552" | "D432525" | "D444475" | "D452520" | "D462339" | "D462340" | "D462945" | "D466108" | "D468297" | "D474763" | "D475993" |	US-PGPUB; USPAT	OR	ON	2017/02/28 11:59

		"D476643" | "D477310" | "D478051" | "D478069" | "D478896" | "D479520" | "D481056" | "D486145" | "D491925" | "D493148" | "D495333" | "D496003" | "D496005" | "D496335" | "D497363" | "D499086" | "D499395" | "D499718" | "D500015" | "D501477" | "D504872" | "D504885" | "D506463" | "D515072" | "D515557" | "D518475" | "D524296" | "D527375" | "20060173844" | "20060222186" | "20060227985" | "20060259649" | "20060270395" | "20070087686" | "20080075295" | "20080205070" | "20080303947" | "20090011798" | "20090070434" | "20090124289" | "20100087089" | "20110001632" | "20110316768" | "20150365987" | "20040185773" | "20050154766" | "20060222186" | "20060259649" | "20070087686" | "20080205070" | "20080303947" | "20090124289" | "20100087089" | "20110001632" | "3956591" | "4105974" | "4306114" | "5182552" | "5440644" | "5625350" | "5774016" | "5875233" | "6535121" | "6873862" | "7161939" | "7308188" | "7472058" | "7558635" | "7721032" | "7761176" | "7945708" | "7995732" | "8041062" | "8233029" | "8654995" | "8423893" | "8521316" | "20040015252" | "20040237750" | "20060173972" | "20060205349" | "20080077261" | "20080092204" | "20080152165" | "20010042107" | "20020022453" | "20020026442" | "20020124097" | "20030157951" | "20040024478" | "20070142944" | "5923902" | "6256554" | "6404811" | "6522886" | "6611537" | "6631410" | "6757517" | "6778869" | "7130608" | "7130616" | "7143939" | "7236773" | "7483538" | "7571014" | "7643894" | "7657910" | "7853341" | "8014423" | "8045952" | "8103009" | "8234395" | "None" | "20080215169" | "20090251604" | "20110228944" | "20140256260" | "20040081099" | "6999827" | "7302468" | "7728911" | "7908637" | "7930644" | "8054987" | "8055353" | "8275307" | "8639370" | "8938312" | "20100054709" | "20050281138" | "20040031853" | "20020072816" | "20020098878" | "20030023329" | "20040239816" | "20050100174" | "20060029005" | "20060089735" | "20060229752" |				

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S1158	9	"731119".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/18 14:55
S1159	2	"20160357503"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/18 14:55
S1160	34664	((G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R2420/01 OR H04R2430/01 OR H04R3/04 OR H04R3/12 OR G11B27/34).CPC.) 700/94.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/18 14:56
S1161	39	("5440644" | "5761320" | "5923902" | "6032202" | "6256554" | "6404811" | "6469633" | "6522886" | "6611537" | "6631410" | "6757517" | "6778869" | "7130608" | "7130616" | "7143939" | "7236773" | "7295548" | "7483538" | "7571014" | "7630501" | "7643894" | "7657910" | "7853341" | "7987294" | "8014423" | "8045952" | "8103009" | "8234395" | "8483853" | "20010042107" | "20020022453" | "20020026442" | "20020124097" | "20030157951" | "20040024478" | "20070142944" | "8799080" | "8903526" | "20130243199").PN.	US-PGPUB; USPAT	OR	ON	2017/03/18 15:10
S1162	6	"2005004532"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:34
S1163	45	coherenc$6 near3 (vector matrix) with second	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:37
S1164	802147	decompos$6	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:41
S1165	63814	decompos$6 and surfac$4 near3 (group region timbral patch$4)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:42
S1166	945	decompos$6 and surfac$4 near3 (group region timbral patch$4) and ((path patch ray) near2 trac$6 beam$form$4)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:42
S1167	548	decompos$6 and surfac$4 near3 (group region timbral patch$4) and	US-PGPUB;	OR	ON	2017/03/18 16:43

		((path patch ray) near2 trac$6 beam$form$4) and (intensity) and position	USPAT; EPO; DERWENT			
S1168	569	decompos$6 and surfac$4 near3 (group region timbral patch$4) and ((path patch ray) near2 trac$6 beam$form$4) and (intensity) and (spatial$6 position$4)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:43
S1169	115	decompos$6 and surfac$4 near3 (group region timbral patch$4) and ((path patch ray) near2 trac$6 beam$form$4) and (intensity) and (spatial$6 position$4) and mov$4 near3 averag$4	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:43
S1170	140	decompos$6 and surfac$4 near3 (group region timbral patch$4) and ((path patch ray) near2 trac$6 beam$form$4) and (intensity) and (spatial$6 position$4) and (mov$4 near3 averag$4 ppm vu)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:44
S1171	106	decompos$6 and surfac$4 near3 (group region timbral patch$4) and ((path patch ray) near2 trac$6 beam$form$4) and (intensity) and (spatial$6 position$4) and (mov$4 near3 averag$4 ppm vu) and delay$6	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:44
S1172	95	decompos$6 and surfac$4 near3 (group region timbral patch$4) and ((path patch ray) near2 trac$6 beam$form$4) and (intensity) and (spatial$6 position$4) and (mov$4 near3 averag$4 ppm vu) and delay$6 and (voxel$8 mesh$6)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:44
S1173	13	"754155".ap.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:47
S1174	2	"20150378019"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:47
S1175	45	decompos$6 and surfac$4 near3 (group region timbral patch$4) and ((path patch ray) near2 trac$6 beam$form$4) and (intensity) and (spatial$6 position$4) and (mov$4 near3 averag$4 ppm vu) not S1172	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 16:48
S1176	7	surface adj patch$4 and scene adj decompos$6	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 17:43
S1177	10	scene near3 decompos$6 and surfac$4 near3 (group region timbral patch$4) and ((path patch ray) near2 trac$6 beam$form$4)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 17:43

S1178	41	(sound near2 ray sound$ray wave$ray wave near2 ray) and decompos$6 and surfac$4 near3 (group region timbral patch$4) and ((path patch ray) near2 trac$6 beam$form$4)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/03/18 17:45
S1234	9	"20110016405" "20080216125" "20120286927" "20080204410"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/20 14:16
S1235	271	("816217" "861653" "035112")"ap."	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/20 16:09
S1236	0	("816217" "861653" "035112").ap. and LAN and volume near2 control$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/20 16:09
S1239	1	"743896".ap. and hardware	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/20 16:13
S1240	8	("5198603" | "6032202" | "7945143" | "8483853" | "9507780" | "20030063528" | "20030123853" | "20060161742").PN.	US-PGPUB; USPAT	OR	ON	2017/03/21 11:19
S1241	4	("816217" "861653" "035112").ap. and network and volume near2 control$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/21 11:20
S1242	4	("816217" "861653" "035112").ap. and network$4 and volume near2 control$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/21 11:20
S1243	14	("5596696" | "6917592" | "7257398" | "7286652" | "7400644" | "7907819" | "20020131398" | "20030008616" | "20030172123" | "20040032421" | "20040044742" | "20050105052" | "20050159833" | "20050262217").PN.	US-PGPUB; USPAT	OR	ON	2017/03/21 11:22
S1244	2	shdema.in. and $5speaker	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/21 11:22
S1245	1	shdema.in. and $5speaker and volume	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/21 11:23
S1246	3	shdema.in. and volume same (user instruct$6 command$4)	US-PGPUB; USPAT;	OR	ON	2017/03/21 11:23

			EPO; JPO; DERWENT			
S1247	1	"5182552".pn. and volume same (user instruct$6 command$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/21 11:25
S1248	0	"5361381".ap. and volume same (user instruct$6 command$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/21 11:30
S1249	0	"5361381".ap. and volume	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/21 11:30
S1250	2	"5361381".pn. and volume	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/21 11:31
S1251	1	"5361381".pn. and volume with (user second)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/21 11:31
S1252	1	"5361381".pn. and volume with (user second left right)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/21 11:31
S1253	9	("7590249" | "7974422" | "8315396" | "8504376" | "8594319" | "8744067" | "20100322446" | "20110196685" | "20120177204").PN.	US-PGPUB; USPAT	OR	ON	2017/03/21 13:18
S1254	0	("7590249" | "7974422" | "8315396" | "8504376" | "8594319" | "8744067" | "20100322446" | "20110196685" | "20120177204").PN. and dme	US-PGPUB; USPAT	OR	ON	2017/03/21 13:19
S1255	0	("7590249" | "7974422" | "8315396" | "8504376" | "8594319" | "8744067" | "20100322446" | "20110196685" | "20120177204").PN. and height	US-PGPUB; USPAT	OR	ON	2017/03/21 13:19
S1256	16075	(surround "5.1" "7.1" lfe) and height near6 (channel parameter object)	US-PGPUB; USPAT	OR	ON	2017/03/21 13:19
S1257	20	(surround "5.1" "7.1" lfe) and height near6 (channel parameter object) and saoc	US-PGPUB; USPAT	OR	ON	2017/03/21 13:20
S1258	0	(surround "5.1" "7.1" lfe) and height near6 (channel parameter object) and saoc and dme	US-PGPUB; USPAT	OR	ON	2017/03/21 13:21
S1259	0	(surround "5.1" "7.1" lfe) and height near6 (channel parameter object) and saoc and dialog same effect	US-PGPUB; USPAT	OR	ON	2017/03/21 13:21

S1260	64	(surround "5.1" "7.1" lfe) and height near6 (channel parameter object) and dialog same effect	US-PGPUB; USPAT	OR	ON	2017/03/21 13:21
S1261	0	(surround "5.1" "7.1" lfe) and height near6 (channel parameter object) and dialog same effect and dme	US-PGPUB; USPAT	OR	ON	2017/03/21 13:21
S1262	106	(surround "5.1" "7.1" lfe) and height near6 (channel parameter object) and dme	US-PGPUB; USPAT	OR	ON	2017/03/21 13:21
S1263	7	height near6 (channel parameter object) and dialog same effect and dme	US-PGPUB; USPAT	OR	ON	2017/03/21 13:22
S1264	8	"874095".ap.	US-PGPUB; USPAT	OR	ON	2017/03/21 13:22
S1279	12	"243355".ap.	US-PGPUB; USPAT	OR	ON	2017/03/21 17:50
S1280	1	"20040087686"	US-PGPUB; USPAT	OR	ON	2017/03/21 17:52
S1281	1	"20070087686"	US-PGPUB; USPAT	OR	ON	2017/03/21 17:53
S1282	10	("7627825" "6469633" "5761320" "6469633" "6826283" "5182552" "20020072816" "20030103088" "7987294" "7197148" "5282552" "6469633").pn.	US-PGPUB; USPAT	OR	ON	2017/03/21 17:54
S1283	4	("7627825" "6469633" "5761320" "6469633" "6826283" "5182552" "20020072816" "20030103088" "7987294" "7197148" "5282552" "6469633").pn. and group$5 same (volume amplitude level gain)	US-PGPUB; USPAT	OR	ON	2017/03/21 17:54
S1284	6	("7627825" "6469633" "5761320" "6469633" "6826283" "5182552" "20020072816" "20030103088" "7987294" "7197148" "5282552" "6469633").pn. and (group$6)	US-PGPUB; USPAT	OR	ON	2017/03/21 17:57
S1285	2	("7627825" "6469633" "5761320" "6469633" "6826283" "5182552" "20020072816" "20030103088" "7987294" "7197148" "5282552" "6469633").pn. and (group$6) not S1283	US-PGPUB; USPAT	OR	ON	2017/03/21 17:57
S1286	1	"20020072816" and (lan local network$4)	US-PGPUB; USPAT	OR	ON	2017/03/21 18:01
S1287	0	"20020072816" and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2017/03/21 18:02
S1288	1	"20020072816" and (time timing)	US-PGPUB; USPAT	OR	ON	2017/03/21 18:02
S1289	1	"20020072816" and (interface gui ui)	US-PGPUB; USPAT	OR	ON	2017/03/21 18:05

S1290	1	"20020072816" and (interface gui ui) same (volume parameters)	US-PGPUB; USPAT	OR	ON	2017/03/21 18:05
S1291	1	"20020072816" and (interface gui ui) same (volume same parameters)	US-PGPUB; USPAT	OR	ON	2017/03/21 18:07
S1292	0	"20020072816" and (interface gui ui) same (address$4 same parameters)	US-PGPUB; USPAT	OR	ON	2017/03/21 18:08
S1293	1	"20020072816" and (address$4 same parameters)	US-PGPUB; USPAT	OR	ON	2017/03/21 18:08
S1294	1	"20020072816" and (address$4 same (volume information parameters))	US-PGPUB; USPAT	OR	ON	2017/03/21 18:09
S1295	1	"20020072816" and (stereo same (volume information parameters))	US-PGPUB; USPAT	OR	ON	2017/03/21 18:15
S1296	4078	mpeg4 and pair$6	US-PGPUB; USPAT	OR	ON	2017/03/22 12:17
S1297	15863	(mpeg adj "4" mpeg4) and pair$6	US-PGPUB; USPAT	OR	ON	2017/03/22 12:17
S1298	1	"20020072816" and (surround$4 "5.1" stereo)	US-PGPUB; USPAT	OR	ON	2017/03/22 12:18
S1299	0	"20020072816" and (sync synch synchron$8)	US-PGPUB; USPAT	OR	ON	2017/03/22 12:19
S1300	12	"339249".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/27 16:28
S1301	2	"20160026429"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/27 16:34
S1302	16138	((G06F3/165 g06f3/162).CPC. OR (715/716 700/94).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/27 16:36
S1303	1129	((G06F3/165 g06f3/162).CPC. and (715/716 700/94).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/27 16:36
S1343	0	"339249" and fig$6 with 6c	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/29 17:14
S1344	0	"339249".ap. and fig$6 with 6c	US-PGPUB; USPAT;	OR	ON	2017/03/29 17:14

			EPO; JPO; DERWENT			
S1345	12	"339249".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/29 17:14
S1346	3	"20120078741"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/29 18:20
S1347	1	("20120078741" "20100329471").pn. and wind	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/30 10:37
S1348	2	"733218".ap. and (trigger$4 actuat$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/30 10:44
S1349	4	"248255".ap. and (trigger$4 actuat$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/30 13:03
S1350	4	"248255".ap. and (thresh$6 trigger$4 actuat$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/30 13:03
S1351	12	"248255".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/30 13:03
S1352	12	"338710".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/31 16:15
S1353	2	"20160026428"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/03/31 16:16
S1354	8	("5440644" | "5761320" | "6032202" | "6469633" | "7295548" | "7630501" | "7987294" | "8483853" | "None").PN.	US-PGPUB; USPAT	OR	ON	2017/03/31 16:18
S1355	3	("7483538" | "7853341" | "8103009").PN.	US-PGPUB; USPAT	OR	ON	2017/03/31 16:18
S1356	5	("8423893" | "8762565" | "8965544" | "20130103873" | "20140093085").PN.	US-PGPUB; USPAT	OR	ON	2017/03/31 16:19
S1357	16	S1354 S1355 S1356	US-PGPUB;	OR	ON	2017/03/31 16:19

			USPAT; EPO; JPO; DERWENT			
S1358	0	("5440644" | "5761320" | "6032202" | "6469633" | "7295548" | "7630501" | "7987294" | "8483853" | "None").PN. and "not$"	US-PGPUB; USPAT	OR	ON	2017/03/31 16:19
S1359	0	("5440644" | "5761320" | "6032202" | "6469633" | "7295548" | "7630501" | "7987294" | "8483853" | "None").PN. and "does"	US-PGPUB; USPAT	OR	ON	2017/03/31 16:20
S1360	0	("5440644" | "5761320" | "6032202" | "6469633" | "7295548" | "7630501" | "7987294" | "8483853" | "None").PN. and "does$6"	US-PGPUB; USPAT	OR	ON	2017/03/31 16:20
S1361	1	("5440644" | "5761320" | "6032202" | "6469633" | "7295548" | "7630501" | "7987294" | "8483853" | "None").PN. and does$6	US-PGPUB; USPAT	OR	ON	2017/03/31 16:20
S1362	0	("5440644" | "5761320" | "6032202" | "6469633" | "7295548" | "7630501" | "7987294" | "8483853" | "None").PN. and undefiner	US-PGPUB; USPAT	OR	ON	2017/03/31 16:20
S1363	1	("5440644" | "5761320" | "6032202" | "6469633" | "7295548" | "7630501" | "7987294" | "8483853" | "None").PN. and undefin$4	US-PGPUB; USPAT	OR	ON	2017/03/31 16:20
S1398	2	"20140093219"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/17 16:55
S1399	240	"7571014"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/17 16:59
S1400	2	"7571014".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/17 16:59
S1401	209	("20010009604" | "20010022823" | "20010032188" | "20020002039" | "20020002562" | "20020003548" | "20020034374" | "20020042844" | "20020049843" | "20020065926" | "20020072816" | "20020073228" | "20020090914" | "20020093478" | "20020109710" | "20020112244" | "20020116476" | "20020129156" | "20020143998" | "20020163361" | "20020165921" | "20020178191" | "20020188762" | "20030002609" |	US-PGPUB; USPAT	OR	ON	2017/04/17 17:21

		"20030020763"	"20030023741"				
		"20030035444"	"20030041173"				
		"20030041174"	"20030043924"				
		"20030066094"	"20030099212"				
		"20030099221"	"20030126211"				
		"20030195964"	"20030198257"				
		"20030210796"	"20030220973"				
		"20030231871"	"20030235304"				
		"20040001484"	"20040001591"				
		"20040008852"	"20040010727"				
		"20040015252"	"20040024925"				
		"20040025185"	"20040027166"				
		"20040032348"	"20040066736"				
		"20040075767"	"20040078383"				
		"20040078812"	"20040131192"				
		"20040170383"	"20040203378"				
		"20040215611"	"20040249965"				
		"20040249982"	"20040252400"				
		"20040261040"	"20050010691"				
		"20050013394"	"20050021590"				
		"20050047605"	"20050058149"				
		"20050081213"	"20050108320"				
		"20050114538"	"20050125357"				
		"20050166157"	"20050177643"				
		"20050181348"	"20050195205"				
		"20050201254"	"20050281255"				
		"20050283820"	"20050288805"				
		"20050289224"	"20060095516"				
		"20060107237"	"20060119497"				
		"20060143236"	"20060168340"				
		"20060195462"	"20060195479"				
		"20060195480"	"20060253782"				
		"20060294074"	"20070033402"				
		"20070038999"	"20070043847"				
		"20070048713"	"20070054680"				
		"20070136778"	"20070142022"				
		"20070143493"	"20070169115"				
		"20070180137"	"20070214182"				
		"20070224937"	"20070271388"				
		"20070288470"	"20070299778"				
		"20080005690"	"20080016465"				
		"20080022320"	"20080059510"				
		"20080091771"	"20080109529"				
		"20080120429"	"20080144861"				
		"20080154959"	"20080194276"				
		"20080301280"	"20090031336"				
		"20090076881"	"20090150806"				
		"20090157905"	"20090179867"				
		"20090222115"	"20090228919"				
		"20090265426"	"20090313369"				
		"20100010648"	"20100036950"				
		"20100049835"	"20100054275"				
		"20100082731"	"20100094834"				
		"20100095332"	"20100131567"				
		"20100284389"	"20100299391"				
		"20100299639"	"20100318917"				
		"20110004330"	"20110066943"				
		"20110087842"	"20110119706"				
		"20110154173"	"20110202430"				
		"20110202842"	"20110211534"				
		"20110264732"	"20120029671"				
		"20120030366"	"20120054278"				
		"20120060046"	"20120096526"				
		"20120117168"	"20120117185"				

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S1402	91	("6181316" | "6185737" | "6195436" | "6199169" | "6255961" | "6308207" | "6324586" | "6332147" | "6351821" | "6430353" | "6469633" | "6487296" | "6526325" | "6587127" | "6594691" | "6598172" | "6674803" | "6728531" | "6732155" | "6836788" | "6898642" | "6912610" | "6920373" | "6934766" | "7007106" | "7017118" | "7020048" | "7020791" | "7043651" | "7047308" | "7113833" | "7113999" | "7115017" | "7117451" | "7143141" | "7162315" | "7185090" | "7187947" | "7206367" | "7209795" | "7218708" | "7281034" | "7293060" | "7295548" | "7312785" | "7324857" | "7333519" | "7358960" | "7372846" | "7392102" | "7483958" | "7574274" | "7630501" | "7657644" | "7668990" | "7669219" | "7675943" | "7676142" | "7702279" | "7720096" | "7788138" | "7805682" | "7885622" | "7921369" | "7934239" | "7987294" | "7996566" | "8074253" | "8086752" | "8112032" | "8131390" | "8169938" | "8290603" | "8315555" | "8370678" | "8423659" | "8483853" | "8521316" | "8588949" | "8613385" | "8666826" | "8775546" | "8843500" | "8892648" | "9052810" | "9137564" | "9246866" | "9247363" | "9344292" | "9489383" | "9510055").PN.	US-PGPUB; USPAT	OR	ON	2017/04/17 17:21
S1403	7	("2007/0033402").URPN.	USPAT	OR	ON	2017/04/17

						17:28
S1404	19	social adj discovery	USPAT	OR	ON	2017/04/17 17:31
S1405	7	"495595".ap.	USPAT	OR	ON	2017/04/18 11:23
S1406	11	"495595".ap.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/18 11:23
S1407	2	"20160085499"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/18 11:23
S1408	68186	((G05B15/02 OR G06F3/165 OR G06Q50/01 OR H04L65/403).CPC. OR (700/94 OR 709/204).CCLS.)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/18 11:23
S1409	209	("20010009604" | "20010022823" | "20010032188" | "20020002039" | "20020002562" | "20020003548" | "20020034374" | "20020042844" | "20020049843" | "20020065926" | "20020072816" | "20020073228" | "20020090914" | "20020093478" | "20020109710" | "20020112244" | "20020116476" | "20020129156" | "20020143998" | "20020163361" | "20020165921" | "20020178191" | "20020188762" | "20030002609" | "20030020763" | "20030023741" | "20030035444" | "20030041173" | "20030041174" | "20030043924" | "20030066094" | "20030099212" | "20030099221" | "20030126211" | "20030195964" | "20030198257" | "20030210796" | "20030220973" | "20030231871" | "20030235304" | "20040001484" | "20040001591" | "20040008852" | "20040010727" | "20040015252" | "20040024925" | "20040025185" | "20040027166" | "20040032348" | "20040066736" | "20040075767" | "20040078383" | "20040078812" | "20040131192" | "20040170383" | "20040203378" | "20040215611" | "20040249965" | "20040249982" | "20040252400" | "20040261040" | "20050010691" | "20050013394" | "20050021590" | "20050047605" | "20050058149" | "20050081213" | "20050108320" | "20050114538" | "20050125357" | "20050166157" | "20050177643" | "20050181348" | "20050195205" | "20050201254" | "20050281255" | "20050283820" | "20050288805" | "20050289224" | "20060095516" | "20060107237" | "20060119497" | "20060143236" | "20060168340" |	US-PGPUB; USPAT	OR	ON	2017/04/18 11:24

		"20060195462" | "20060195479" | "20060195480" | "20060253782" | "20060294074" | "20070033402" | "20070038999" | "20070043847" | "20070048713" | "20070054680" | "20070136778" | "20070142022" | "20070143493" | "20070169115" | "20070180137" | "20070214182" | "20070224937" | "20070271388" | "20070288470" | "20070299778" | "20080005690" | "20080016465" | "20080022320" | "20080059510" | "20080091771" | "20080109529" | "20080120429" | "20080144861" | "20080154959" | "20080194276" | "20080301280" | "20090031336" | "20090076881" | "20090150806" | "20090157905" | "20090179867" | "20090222115" | "20090228919" | "20090265426" | "20090313369" | "20100010648" | "20100036950" | "20100049835" | "20100054275" | "20100082731" | "20100094834" | "20100095332" | "20100131567" | "20100284389" | "20100299391" | "20100299639" | "20100318917" | "20110004330" | "20110066943" | "20110087842" | "20110119706" | "20110154173" | "20110202430" | "20110202842" | "20110211534" | "20110264732" | "20120029671" | "20120030366" | "20120054278" | "20120060046" | "20120096526" | "20120117168" | "20120117185" | "20120117586" | "20120129446" | "20120151320" | "20120206623" | "20120210205" | "20120233067" | "20120233639" | "20120272156" | "20120284423" | "20120311635" | "20130007617" | "20130024880" | "20130031162" | "20130061296" | "20130070093" | "20130073584" | "20130080599" | "20130080955" | "20130129232" | "20130174204" | "20130246522" | "20130246916" | "20130254207" | "20130310316" | "20130346859" | "20140047074" | "4296278" | "4816989" | "5182552" | "5239458" | "5299266" | "5406634" | "5440644" | "5467342" | "5491839" | "5553222" | "5563946" | "5668884" | "5673323" | "5751819" | "5761320" | "5808662" | "5815689" | "5856827" | "5867691" | "5875354" | "5887143" | "5946343" | "5956088" | "6002862" | "6009457" | "6026150" | "6031818" | "6032202" | "6128318" | "6157957" | "6175872").PN.				
S1410	91	("6181316" | "6185737" | "6195436" | "6199169" | "6255961" | "6308207" | "6324586" | "6332147" | "6351821" | "6430353"	US-PGPUB; USPAT	OR	ON	2017/04/18 11:24

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S1411	300	S1409 S1410	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/18 11:24
S1412	46	S1408 and S1411	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/18 11:24
S1413	4569	((G05B15/02 OR G06F3/165 OR G06Q50/01 OR H04L65/403).CPC. and (700/94 OR 709/204).CCLS.)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/18 11:25
S1414	20	("853790" "892230").ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 07:01
S1415	4	"20090290064" "20120053714"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 09:03
S1416	14	"729355".ap.	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2017/04/19 13:25

			DERWENT			
S1417	1	"20150363411" and mix$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 13:26
S1418	1	"20150363411" and mix$4 and buffer$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 13:41
S1419	0	"20150363411" and each	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 13:53
S1420	4	"20090290064" "20120053714"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 14:47
S1421	388	(multi$5zone multi$6 near2 (device player zone)) and sonos.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 14:58
S1422	377	(multi$5zone multi$6 near2 (device player zone)) and sonos.as. and @ad<="20160523"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 14:59
S1423	1	"737199".ap. and graphic$6 same stor$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:01
S1424	1	(multi$5zone multi$6 near2 (device player zone)) and sonos.as. and "20160364206"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:03
S1425	2	(multi$5zone multi$6 near2 (device player zone)) and "20160364206"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:04
S1426	2	(multi$5zone multi$6 near2 (device player zone)) and 8483853/.pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:05
S1427	2	(multi$5zone multi$6 near2 (device player zone)) and "8483853".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:05
S1428	622	(multi$5zone multi$6group$4 multi$6 near2 (device group$5 player zone)) near5 (group$6 scene) and sonos	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2017/04/19 15:06

			DERWENT			
S1429	120	(multi$5zone multi$6group$4 multi$6 near2 (device group$5 player zone)) near5 (group$6 scene) and sonos.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:11
S1430	112	(multi$5zone multi$6group$4 multi$4 near2 (device group$5 player zone)) near5 (group$6 scene) and sonos.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:12
S1431	0	(multi$5zone multi$6group$4 multi$4 near2 (device group$5 player zone)) near5 (group$6 scene) and "sonos."	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:12
S1432	594	(multi$5zone multi$6group$4 multi$4 near2 (device group$5 player zone)) near5 (group$6 scene) and "sonos"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:12
S1433	74	"8290603"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:13
S1434	3	"8290603".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:13
S1435	482	S1432 not S1430	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:15
S1436	373	S1432 not S1430 and @ad<="20150611"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:15
S1437	373	S1432 not S1430 and @ad<="20150611"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:15
S1438	3	S1432 not S1430 and 715/716.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:16
S1439	0	S1432 not S1430 and "478946".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:18
S1440	2	S1430 and "478946".ap.	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2017/04/19 15:19

			DERWENT			
S1441	112	S1430	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:19
S1442	112	S1430	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:19
S1443	9	"505966".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/19 15:42
S1444	191	(dolby$e dolby adj e)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 12:27
S1445	615	(dolby$e dolby adj e mdct) and (sub$fram$5 sub adj fram$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 12:29
S1446	149	(dolby$e dolby adj e mdct)same (sub$fram$5 sub adj fram$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 12:34
S1447	150	(dolby$e dolby adj e mdct)same (sub$fram$5 sub$segment$5 sub adj (segment$5 fram$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 12:35
S1448	5	("6188987" | "6690428" | "7912045" | "20110040396" | "20130246077").PN.	US-PGPUB; USPAT	OR	ON	2017/04/20 12:36
S1449	0	S1447 and S1448	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 12:36
S1450	2	S1448 and (sub$fram$5 sub$segment$5 sub adj (segment$5 fram$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 12:36
S1451	10	"822168".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:20
S1452	1	subframe and "20150348558"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:20

S1453	1	bits with subframe and "20150348558"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:20
S1454	1	guard and "20150348558"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:37
S1455	3	(dolby$e dolby adj e mdct)same (sub$fram$5 sub$segment$5 sub adj (segment$5 fram$5)) same guard	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:40
S1456	3	(dolby$e dolby adj e mdct)same (sub$fram$5 sub$segment$5 sub adj (segment$5 fram$5)) and guard	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:42
S1457	1	(dolby$e dolby adj e mdct) same guard same supplement$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:43
S1458	1	(dolby$e dolby adj e mdct) and guard same ((sync synchron$9 supplement$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:43
S1459	150	sonos.as. and (party adj mode party$mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:48
S1460	2	sonos.as. and (party adj mode party$mode).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:48
S1461	2	sonos.as. and (party adj mode party$mode) same icon	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:49
S1462	15055	guard same ((sync synchron$9 supplement$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:51
S1463	1940	(guard$band guard adj band) same ((sync synchron$9 supplement$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:51
S1464	10	(dolby aes$4) and (guard$band guard adj band) same ((sync synchron$9 supplement$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 15:51

S1465	5	("6188987" | "6690428" | "7912045" | "20110040396" | "20130246077").PN.	US-PGPUB; USPAT	OR	ON	2017/04/20 17:14
S1466	1	guard and "20150348558"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 17:14
S1467	3	(dolby$e dolby adj e mdct)same (sub$fram$5 sub$segment$5 sub adj (segment$5 fram$5)) same guard	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 17:14
S1468	3	(dolby$e dolby adj e mdct)same (sub$fram$5 sub$segment$5 sub adj (segment$5 fram$5)) and guard	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 17:14
S1469	1	(dolby$e dolby adj e mdct) same guard same supplement$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 17:14
S1470	1	(dolby$e dolby adj e mdct) and guard same ((sync synchron$9 supplement$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 17:14
S1471	150	sonos.as. and (party adj mode party$mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 17:14
S1472	2	sonos.as. and (party adj mode party$mode).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 17:14
S1473	152	S1466 S1467 S1468 S1469 S1470 S1471 S1472	US-PGPUB; USPAT	OR	ON	2017/04/20 17:14
S1474	15055	guard same ((sync synchron$9 supplement$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 17:15
S1475	1940	(guard$band guard adj band) same ((sync synchron$9 supplement$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 17:15
S1476	10	(dolby aes$4) and (guard$band guard adj band) same ((sync synchron$9 supplement$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2017/04/20 17:15
S1477	13869	S1475 S1476 S1474	US-PGPUB; USPAT	OR	ON	2017/04/20 17:15

S1478	9	"505966".ap.	US-PGPUB; USPAT	OR	ON	2017/04/21 08:37
S1504	8	"2101795".did.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 17:09
S1505	0	dugging adj translating	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 17:10
S1506	1	dubbing adj translating	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 17:10
S1507	1	dubbing with translating with soundtrack	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 17:10
S1508	3	"20140135962"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 17:13
S1509	5	"9715926"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 17:26
S1510	1	"453343".ap. and retriev$6	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 17:28
S1511	2	"20140135962" and (tone speed pitch)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 18:27
S1513	8	"2101795".did.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 21:37
S1514	0	dugging adj translating	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 21:37
S1515	1	dubbing adj translating	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 21:37
S1516	1	dubbing with translating with soundtrack	US-PGPUB;	OR	ON	2017/04/21 21:37

			USPAT; EPO; DERWENT			
S1517	3	"20140135962"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 21:37
S1520	5	"9715926"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 21:40
S1521	1	"453343".ap. and retriev$6	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 21:40
S1522	2	"20140135962" and (tone speed pitch)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2017/04/21 21:40
S1524	6	("20090238377" | "20110058683" | "20120284023" | "5625697" | "8031853" | "8401178").PN.	US-PGPUB; USPAT	OR	ON	2017/04/22 07:50
S1533	0	sonos.as. and fourth adj command$6	US-PGPUB; USPAT; DERWENT	OR	ON	2018/03/12 13:37
S1534	19	sonos.as. and fourth near3 (player zone command$6)	US-PGPUB; USPAT; DERWENT	OR	ON	2018/03/12 13:37
S1535	14	"737199".ap.	US-PGPUB; USPAT; DERWENT	OR	ON	2018/03/12 13:37
S1536	2	"20160364206"	US-PGPUB; USPAT; DERWENT	OR	ON	2018/03/12 13:39
S1537	13	"8290603" and fourth near3 (player zone command$6)	US-PGPUB; USPAT; DERWENT	OR	ON	2018/03/12 13:41
S1538	0	"8290603".pn. and (second third fourth) near3 (player zone command$6) and fourth	US-PGPUB; USPAT; DERWENT	OR	ON	2018/03/12 13:41
S1539	1	"8290603".pn. and (second third fourth) near3 (player zone command$6)	US-PGPUB; USPAT; DERWENT	OR	ON	2018/03/12 13:41
S1540	1	"8290603".pn. and (second third fourth) near3 (player zone command$6)and (second third fourth)	US-PGPUB; USPAT; DERWENT	OR	ON	2018/03/12 13:43
S1541	2	("20130236029" |	US-	OR	ON	2018/08/08

		"20150286360").PN.	PGPUB; USPAT			10:15
S1542	3322	king.in. and language	US-PGPUB; USPAT	OR	ON	2018/08/08 10:37
S1543	12	king.in. and language and soundtrack	US-PGPUB; USPAT	OR	ON	2018/08/08 10:37
S1544	13108	king.in. and varia$8	US-PGPUB; USPAT	OR	ON	2018/08/08 10:37
S1545	6	S1543 and S1544	US-PGPUB; USPAT	OR	ON	2018/08/08 10:37
S1546	19	king.in. and soundtrack	US-PGPUB; USPAT	OR	ON	2018/08/08 10:39
S1547	7	king.in. and soundtrack not S1543	US-PGPUB; USPAT	OR	ON	2018/08/08 10:39
S1548	1288	king.in. and dub$4 overdub$6	US-PGPUB; USPAT	OR	ON	2018/08/08 10:40
S1549	522	king.in. and (dub$4 overdub$6)	US-PGPUB; USPAT	OR	ON	2018/08/08 10:40
S1550	38	king.in. and (dub$4 overdub$6) and adobe	US-PGPUB; USPAT	OR	ON	2018/08/08 10:40
S1551	428	logan.in. and character and varia$6	US-PGPUB; USPAT	OR	ON	2018/08/08 10:43
S1552	4	"228812".ap. and third	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 12:59
S1553	2	"629937".ap. and determin$8 with pair$5 and pair$6 same (type kind)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 13:09
S1554	3	"629937".ap. and determin$8 with pair$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 13:10
S1555	0	"629937".ap. and determin$8 with type	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 13:11
S1556	9	("853740" "013740" "083499" "299847").ap. and pair$6 same (type kind)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 13:11
S1557	0	"20130243199" and third	US-	OR	ON	2018/08/08

			PGPUB; USPAT; EPO; JPO; DERWENT			14:01
S1558	4	"228812".ap. and third	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 14:01
S1559	1	"228812".ap. and nickname	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 14:11
S1560	1	"228812".ap. and nick$name	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 14:11
S1561	2	"228812".ap. and name	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 14:21
S1562	4	("013740").ap. and nam$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 14:25
S1563	0	("013740").ap. and micknam4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 14:26
S1564	2	("013740").ap. and nicknam4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 14:26
S1565	6	("853790").ap. and (nam$4 nick$name)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/08 14:26
S1618	71	baudino.in. and group$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/09 19:46
S1619	5	baudino.in. and group$6 same play$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/09 19:46
S1620	3	"487686".ap. and player	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 07:56
S1621	3	"8290603".pn.	US-	OR	ON	2018/08/10

			PGPUB; USPAT; EPO; JPO; DERWENT			11:52
S1622	15	"737199".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 11:55
S1623	436	sonos.as. and @pd<="20140611"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 11:57
S1624	22	sonos.as. and @pd<="20140611" and sav$6 with group$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 11:57
S1625	10	sonos.as. and @pd<="20140611" and sav$6 with display$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 11:59
S1626	1	"8290603".pn. and link$6 same (stor$6 sav$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 12:04
S1627	3	"20150286360" and (stor$6 sav$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 12:09
S1628	2	("20150286360" "7571014" "8290603").pn. and (nam$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 12:54
S1629	6	S1622 and (nam$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 12:55
S1630	191	("000None" | "20020026442" | "20020124097" | "6757517" | "7130616" | "8103009" | "20030185400" | "20040037433" | "20130339397" | "20150245138" | "7921369" | "9246866" | "6404811" | "6778869" | "7130608" | "8234395" | "20120121105" | "8971546" | "20030157951" | "7657910" | "20080152312" | "20090179867" | "20130331970" | "20150286360" | "20160180248" | "7571014" | "7630501" | "8483853" | "5761320" | "6469633" | "8423893" | "5923902" | "6631410" | "7483538" | "20050021590" | "20090076881" | "20100017714" |	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 13:46

		"20100325239" | "20140037107" | "20140230015" | "20150237409" | "20100115562" | "20040024478" | "6256554" | "7143939" | "7236773" | "20030063755" | "20120054278" | "20130111347" | "20140310058" | "7295548" | "20130080955" | "20130253679" | "6522886" | "8014423" | "8045952" | "20140181659" | "20150186110" | "8843500" | "6032202" | "20130014015" | "20130223642" | "8762565" | "8965544" | "20010042107" | "20070142944" | "7853341" | "20040223622" | "20090234476" | "20140122590" | "5440644" | "7987294" | "20130238108" | "20020022453" | "6611537" | "7571014" | "7643894" | "20040228367" | "20080177822" | "20130317635" | "20150179227" | "20160026429" | "5361381" | "8290603" | "8554347" | "8903526" | "20150092959").PN.				
S1631	7	("20150286360" "7571014" "8290603").pn. and S1630	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 13:54
S1632	0	"20080077261" and network$6 and interfac$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 14:21
S1633	2	"20080077261" and network$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 14:21
S1634	0	S1630 and korhonen.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 14:21
S1635	0	S1630 and korhonen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 14:26
S1636	28	korhonen and sonos.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 14:26
S1637	9	"20080045140"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/10 14:27
S1638	1	"20080077261" and stream$6	US-PGPUB;	OR	ON	2018/08/11 14:24

			USPAT; EPO; JPO; DERWENT			
S1639	2	"20080077261" and (MEMORY STOR$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:27
S1640	2	"20080077261" and (MEMORY STOR$4 ram)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:27
S1641	0	"20080077261" and join	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:29
S1642	1	"20080077261" and join$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:29
S1643	1	"20080077261" and (frequency eq equal$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:31
S1644	1	"20080077261" and (leav$4 enter$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:37
S1645	1	"20080077261" and (separate channel)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:40
S1646	0	"20080077261" and (output$4 near5 audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:42
S1647	0	"20080077261" and (output$4 same (channel audio stream$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:42
S1648	0	"20080077261" and (output$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:42
S1649	2	"20080077261" and (playback$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:42
S1650	2	"20080077261" and (deliver$6 stream$4)	US-PGPUB;	OR	ON	2018/08/11 14:43

			USPAT; EPO; JPO; DERWENT			
S1651	1	"20080077261" and (stream$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:45
S1652	3	shdema.in. and (stream$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/11 14:49
S1653	200	("20010001160" | "20010009604" | "20010022823" | "20010027498" | "20010032188" | "20010042107" | "20010043456" | "20010046235" | "20010047377" | "20010050991" | "20020002039" | "20020002562" | "20020002565" | "20020003548" | "20020022453" | "20020026442" | "20020034374" | "20020042844" | "20020049843" | "20020062406" | "20020065926" | "20020067909" | "20020072816" | "20020072817" | "20020073228" | "20020078161" | "20020078293" | "20020080783" | "20020090914" | "20020093478" | "20020095460" | "20020098878" | "20020101357" | "20020103635" | "20020109710" | "20020112244" | "20020114354" | "20020114359" | "20020124097" | "20020129156" | "20020131398" | "20020131761" | "20020136335" | "20020137505" | "20020143547" | "20020143998" | "20020150053" | "20020159596" | "20020163361" | "20020165721" | "20020165921" | "20020168938" | "20020173273" | "20020177411" | "20020181355" | "20020184310" | "20020188762" | "20020194309" | "20020196951" | "20030002609" | "20030002689" | "20030008616" | "20030014486" | "20030018797" | "20030020763" | "20030023741" | "20030031333" | "20030035072" | "20030035444" | "20030041173" | "20030041174" | "20030043856" | "20030043924" | "20030055892" | "20030061428" | "20030063755" | "20030066094" | "20030067437" | "20030073432" | "20030091322" | "20030097478" | "20030099212" | "20030099221" | "20030101253" | "20030103088" | "20030110329" | "20030126211" | "20030135822" | "20030157951" | "20030161479" | "20030167335" | "20030172123" | "20030177889" | "20030179780" | "20030185400" | "20030195964" | "20030198254" | "20030198255" | "20030198257" | "20030200001" |	US-PGPUB; USPAT	OR	ON	2018/08/13 11:00

		"20030204273" | "20030204509" | "20030210796" | "20030212802" | "20030219007" | "20030227478" | "20030229900" | "20030231208" | "20030231871" | "20030235304" | "20040001106" | "20040001484" | "20040001591" | "20040008852" | "20040010727" | "20040012620" | "20040014426" | "20040015252" | "20040019497" | "20040019807" | "20040019911" | "20040023697" | "20040024478" | "20040024925" | "20040027166" | "20040032348" | "20040032421" | "20040037433" | "20040041836" | "20040042629" | "20040044742" | "20040048569" | "20040059842" | "20040059965" | "20040066736" | "20040071299" | "20040075767" | "20040078383" | "20040080671" | "20040093096" | "20040098754" | "20040111473" | "20040117044" | "20040117462" | "20040128701" | "20040131192" | "20040133689" | "20040143368" | "20040143852" | "20040147224" | "20040148237" | "20040168081" | "20040170383" | "20040171346" | "20040177167" | "20040179554" | "20040183827" | "20040185773" | "20040203354" | "20040203378" | "20040203590" | "20040208158" | "20040213230" | "20040220687" | "20040223622" | "20040224638" | "20040225389" | "20040228367" | "20040248601" | "20040249490" | "20040249965" | "20040249982" | "20040252400" | "20040253969" | "20050002535" | "20050010691" | "20050011388" | "20050013394" | "20050015551" | "20050021470" | "20050021590" | "20050027821" | "20050031135" | "20050047605" | "20050058149" | "20050060435" | "20050062637" | "20050069153" | "20050081213" | "20050100174" | "20050105052" | "20050114538" | "20050120128" | "20050125222" | "20050125357" | "20050131558" | "20050144284" | "20050147261" | "20050154766" | "20050159833").PN.				
S1654	200	("20050160270" | "20050166135" | "20050168630" | "20050177256" | "20050177643" | "20050181348" | "20050195205" | "20050195823" | "20050197725" | "20050198574" | "20050201549" | "20050216556" | "20050254505" | "20050262217" | "20050266798" | "20050266826" | "20050281255" | "20050283820" | "20050288805" | "20050289224" | "20050289244" | "20060041616" | "20060041639" | "20060072489" | "20060095516" | "20060098936" |	US-PGPUB; USPAT	OR	ON	2018/08/13 11:00

		"20060119497"	"20060143236"				
		"20060149402"	"20060155721"				
		"20060173844"	"20060179160"				
		"20060193454"	"20060193482"				
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		"20060222186"	"20060227985"				
		"20060229752"	"20060259649"				
		"20060270395"	"20060294569"				
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		"20070022207"	"20070038999"				
		"20070043847"	"20070047712"				
		"20070048713"	"20070054680"				
		"20070071255"	"20070087686"				
		"20070142022"	"20070142944"				
		"20070143493"	"20070169115"				
		"20070180137"	"20070189544"				
		"20070192156"	"20070206829"				
		"20070223725"	"20070249295"				
		"20070265031"	"20070271388"				
		"20070288610"	"20070299778"				
		"20080002836"	"20080007649"				
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		"20080066120"	"20080072816"				
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		"20080092204"	"20080120429"				
		"20080126943"	"20080144861"				
		"20080144864"	"20080146289"				
		"20080152165"	"20080159545"				
		"20080162668"	"20080189272"				
		"20080205070"	"20080212786"				
		"20080215169"	"20080242222"				
		"20080247554"	"20080263010"				
		"20080303947"	"20090011798"				
		"20090017868"	"20090031336"				
		"20090060219"	"20090070434"				
		"20090089327"	"20090097672"				
		"20090100189"	"20090124289"				
		"20090157905"	"20090164655"				
		"20090169030"	"20090180632"				
		"20090193345"	"20090222115"				
		"20090228919"	"20090232326"				
		"20090251604"	"20100004983"				
		"20100010651"	"20100031366"				
		"20100049835"	"20100052843"				
		"20100067716"	"20100087089"				
		"20100142735"	"20100153097"				
		"20100228740"	"20100272270"				
		"20100284389"	"20100290643"				
		"20100299639"	"20110001632"				
		"20110002487"	"20110044476"				
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		"20120029671"	"20120030366"				
		"20120047435"	"20120051558"				
		"20120051567"	"20120060046"				
		"20120127831"	"20120129446"				
		"20120148075"	"20120185771"				
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S1655	263	("20140075308" | "20140075311" | "20140079242" | "20140108929" | "20140112481" | "20140123005" | "20140140530" | "20140161265" | "20140181569" | "20140219456" | "20140226823" | "20140242913" | "20140256260" | "20140267148" | "20140270202" | "20140273859" | "20140279889" | "20140285313" | "20140286496" | "20140294200" | "20140298174" | "20140323036" | "20140344689" | "20140355768" | "20140355794" | "20140378056" | "20150019670" | "20150026613" | "20150032844" | "20150043736" | "20150049248" | "20150063610" | "20150074527" | "20150074528" | "20150098576" | "20150139210" | "20150146886" | "20150201274" | "20150256954" | "20150281866" | "20150304288" | "20150365987" | "3956591" | "4105974" | "4296278" | "4306114" | "4382158" | "4509211" | "4530091" | "4696037" | "4701629" | "4712105" | "4731814" | "4816989" | "4824059" | "4845751" | "4994908" | "4995778" | "5086385" | "5151922" | "5153579" | "5182552" | "5185680" | "5237327" | "5239458" | "5272757" | "5299266" | "5361381" | "5372441" | "5406634" | "5430485" | "5440644" | "5457448" | "5467342" | "5481251" | "5491839" | "5515345" | "5519641" | "5533021" | "5553147" | "5553222" | "5553314" | "5596696" | "5602992" | "5623483" | "5625350" | "5640388" | "5652749" | "5661665" | "5668884"	US-PGPUB; USPAT	OR	ON	2018/08/13 11:00

		"5673323"	"5696896"	"5726989"	"5740235"	"5742623"	"5751819"	"5761320"
		"5774016"	"5787249"	"5790543"	"5808662"	"5812201"	"5815689"	"5818948"
		"5832024"	"5848152"	"5852722"	"5867691"	"5875233"	"5875354"	"5887143"
		"5905768"	"5910991"	"5923869"	"5923902"	"5946343"	"5956025"	"5956088"
		"5960006"	"5984512"	"5987611"	"5990884"	"5991307"	"5999906"	"6009457"
		"6018376"	"6026150"	"6029196"	"6031818"	"6032202"	"6038614"	"6046550"
		"6061457"	"6078725"	"6081266"	"6088063"	"6101195"	"6108485"	"6108686"
		"6122668"	"6127941"	"6128318"	"6148205"	"6157957"	"6163647"	"6169725"
		"6175872"	"6181383"	"6185737"	"6195435"	"6195436"	"6199169"	"6212282"
		"6246701"	"6253293"	"6255961"	"6256554"	"6269406"	"6301012"	"6308207"
		"6310652"	"6313879"	"6321252"	"6324586"	"6332147"	"6343028"	"6349285"
		"6349339"	"6351821"	"6353172"	"6356871"	"6404811"	"6418150"	"6430353"
		"6442443"	"6449642"	"6449653"	"6456783"	"6463474"	"6466832"	"6469633"
		"6487296"	"6493832"	"6522886"	"6526325"	"6535121"	"6587127"	"6598172"
		"6604023"	"6611537"	"6631410"	"6636269"	"6653899"	"6654720"	"6654956"
		"6658091"	"6674803"	"6684060"	"6687664"	"6704421"	"6741961"	"6757517"
		"6763274"	"6778073"	"6778493"	"6778869"	"6803964"	"6809635"	"6816510"
		"6816818"	"6823225"	"6826283"	"6836788"	"6839752"	"6859460"	"6859538"
		"6873862"	"6882335"	"6889207"	"6898642"	"6901439"	"6907458"	"6912610"
		"6915347"	"6916980"	"6917592"	"6919771"	"6920373"	"6931134"	"6931557"
		"6934766"	"6937988"	"6970482"	"6985694"	"6987767"	"6987947"	"7007106"
		"7020791"	"7043477"	"7043651"	"7046677"	"7047308"	"7054888"	"7058889"
		"7068596"	"7072477"	"7092528"	"7092694"	"7096169"	"7113999"	

		| "7115017" | "7120168" | "7130316" | "7130368" | "7130608" | "7130616" | "7136934" | "7139981" | "7143141" | "7143939" | "7146260" | "7158488" | "7161939").PN.				
S1656	280	("7162315" | "7171010" | "7185090" | "7187947" | "7197148" | "7206367" | "7206618" | "7206967" | "7209795" | "7218708" | "7236739" | "7236773" | "7257398" | "7260616" | "7263110" | "7277547" | "7286652" | "7289631" | "7293060" | "7295548" | "7302468" | "7305694" | "7308188" | "7310334" | "7312785" | "7313593" | "7319764" | "7324857" | "7330875" | "7333519" | "7346332" | "7356011" | "7359006" | "7366206" | "7372846" | "7391791" | "7392102" | "7392481" | "7400644" | "7412499" | "7424267" | "7428310" | "7430181" | "7457948" | "7472058" | "7474677" | "7483538" | "7483540" | "7483958" | "7490044" | "7492912" | "7505889" | "7509181" | "7519188" | "7519667" | "7539551" | "7548744" | "7548851" | "7558224" | "7558635" | "7561932" | "7571014" | "7574274" | "7599685" | "7606174" | "7626952" | "7627825" | "7630500" | "7630501" | "7631119" | "7643894" | "7653344" | "7657224" | "7657644" | "7657910" | "7665115" | "7668990" | "7669113" | "7669219" | "7672470" | "7675943" | "7676044" | "7676142" | "7688306" | "7689304" | "7689305" | "7702279" | "7702403" | "7710941" | "7711774" | "7720096" | "7721032" | "7742740" | "7742832" | "7743009" | "7746906" | "7761176" | "7765315" | "7792311" | "7793206" | "7804972" | "7805210" | "7817960" | "7827259" | "7831054" | "7835689" | "7849181" | "7853341" | "7865137" | "7882234" | "7885622" | "7907819" | "7916877" | "7917082" | "7933418" | "7934239" | "7945636" | "7945708" | "7958441" | "7962482" | "7966388" | "7987294" | "7995732" | "7996566" | "7996588" | "8014423" | "8015306" | "8020023" | "8023663" | "8028038" | "8028323" | "8041062" | "8045721" | "8045952" | "8050203" | "8050652" | "8054987" | "8055364" | "8063698" | "8074253" | "8086287" | "8086752" | "8090317" | "8103009" | "8111132"	US-PGPUB; USPAT	OR	ON	2018/08/13 11:00

		| "8112032" | "8116476" | "8126172" | "8131389" | "8131390" | "8135141" | "8139774" | "8144883" | "8148622" | "8150079" | "8160281" | "8169938" | "8170222" | "8170260" | "8175292" | "8175297" | "8185674" | "8189824" | "8194874" | "8204890" | "8208653" | "8214447" | "8214740" | "8214873" | "8218790" | "8229125" | "8230099" | "8233029" | "8233632" | "8233635" | "8233648" | "8234395" | "8238578" | "8239559" | "8239748" | "8243961" | "8265310" | "8279709" | "8281001" | "8285404" | "8290185" | "8290603" | "8300845" | "8306235" | "8311226" | "8315555" | "8316147" | "8325931" | "8325935" | "8331585" | "8340330" | "8345709" | "8364295" | "8370678" | "8374595" | "8391501" | "8407623" | "8411883" | "8423659" | "8423893" | "8432851" | "8433076" | "8442239" | "8452020" | "8457334" | "8463184" | "8463875" | "8473844" | "8477958" | "8483853" | "8498726" | "8509211" | "8520870" | "8565455" | "8577045" | "8577048" | "8588432" | "8588949" | "8600075" | "8600084" | "8611559" | "8615091" | "8620006" | "8639830" | "8654995" | "8672744" | "8683009" | "8700730" | "8731206" | "8750282" | "8751026" | "8762565" | "8775546" | "8788080" | "8818538" | "8819554" | "8843224" | "8843228" | "8843586" | "8855319" | "8861739" | "8879761" | "8885851" | "8886347" | "8904066" | "8914559" | "8917877" | "8923997" | "8930006" | "8934647" | "8934655" | "8942252" | "8942395" | "8954177" | "8965544" | "8965546" | "8966394" | "8977974" | "8984442" | "9020153" | "9042556" | "9137602" | "9160965" | "9195258" | "9219959" | "9226073" | "9245514" | "9325286" | "9524098" | "D260764" | "D279779" | "D293671" | "D301037" | "D304443" | "D313023").PN.				
S1657	87	("D313398" | "D313600" | "D320598" | "D322609" | "D326450" | "D327060" | "D331388" | "D333135" | "D350531" | "D350962" | "D354059" | "D354751" | "D356093" | "D356312" | "D357024" | "D362446" | "D363933" | "D364877" |	US-PGPUB; USPAT	OR	ON	2018/08/13 11:00

		"D364878" | "D365102" | "D366044" | "D372716" | "D377651" | "D379816" | "D380752" | "D382271" | "D384940" | "D387352" | "D388792" | "D389143" | "D392641" | "D393628" | "D394659" | "D395889" | "D397996" | "D401587" | "D404741" | "D405071" | "D406847" | "D407071" | "D410927" | "D412337" | "D415496" | "D416021" | "D420006" | "D429246" | "D430143" | "D431552" | "D432525" | "D444475" | "D452520" | "D462339" | "D462340" | "D462945" | "D466108" | "D468297" | "D474763" | "D475993" | "D476643" | "D477310" | "D478051" | "D478069" | "D478896" | "D479520" | "D481056" | "D486145" | "D491925" | "D493148" | "D495333" | "D496003" | "D496005" | "D496335" | "D497363" | "D499086" | "D499395" | "D499718" | "D500015" | "D501477" | "D504872" | "D504885" | "D506463" | "D515072" | "D515557" | "D518475" | "D524296" | "D527375" | "RE41608").PN.				
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S1659	1	S1658 and pass	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 11:41
S1660	2	"487686".ap. and (stereo two) near3 channel	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 11:49
S1661	10	("629937" "299847" "083499" "013740" "853790" "487686").ap. and (stereo two) near3 channel	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 11:50
S1662	1	S1658 and (stereo two) near3 channel	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 11:51
S1663	3	S1658 and (stereo two)	US-PGPUB;	OR	ON	2018/08/13 11:54

			USPAT; EPO; JPO; DERWENT			
S1664	3	S1658 and (surround)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 12:00
S1665	6	("629937" "299847" "083499" "013740" "853790" "487686").ap. and consolid$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 12:01
S1666	12	("629937" "299847" "083499" "013740" "853790" "487686").ap. and button	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 12:02
S1667	3	S1658 and wireless$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 12:04
S1668	1	S1658 and center	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 12:07
S1669	3	S1658 and surround	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 12:07
S1670	200	("20010001160" | "20010009604" | "20010022823" | "20010027498" | "20010032188" | "20010042107" | "20010043456" | "20010046235" | "20010047377" | "20010050991" | "20020002039" | "20020002562" | "20020002565" | "20020003548" | "20020022453" | "20020026442" | "20020034374" | "20020042844" | "20020049843" | "20020062406" | "20020065926" | "20020067909" | "20020072816" | "20020072817" | "20020073228" | "20020078161" | "20020078293" | "20020080783" | "20020090914" | "20020093478" | "20020095460" | "20020098878" | "20020101357" | "20020103635" | "20020109710" | "20020112244" | "20020114354" | "20020114359" | "20020124097" | "20020129156" | "20020131398" | "20020131761" | "20020136335" | "20020137505" | "20020143547" | "20020143998" | "20020150053" | "20020159596" | "20020163361" | "20020165721" | "20020165921" | "20020168938" | "20020173273" | "20020177411" | "20020181355" | "20020184310" | "20020188762" | "20020194309" |	US-PGPUB; USPAT	OR	ON	2018/08/13 15:00

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		"20030002689"	"20030008616"				
		"20030014486"	"20030018797"				
		"20030020763"	"20030023741"				
		"20030031333"	"20030035072"				
		"20030035444"	"20030041173"				
		"20030041174"	"20030043856"				
		"20030043924"	"20030055892"				
		"20030061428"	"20030063755"				
		"20030066094"	"20030067437"				
		"20030073432"	"20030091322"				
		"20030097478"	"20030099212"				
		"20030099221"	"20030101253"				
		"20030103088"	"20030110329"				
		"20030126211"	"20030135822"				
		"20030157951"	"20030161479"				
		"20030167335"	"20030172123"				
		"20030177889"	"20030179780"				
		"20030185400"	"20030195964"				
		"20030198254"	"20030198255"				
		"20030198257"	"20030200001"				
		"20030204273"	"20030204509"				
		"20030210796"	"20030212802"				
		"20030219007"	"20030227478"				
		"20030229900"	"20030231208"				
		"20030231871"	"20030235304"				
		"20040001106"	"20040001484"				
		"20040001591"	"20040008852"				
		"20040010727"	"20040012620"				
		"20040014426"	"20040015252"				
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		"20040019911"	"20040023697"				
		"20040024478"	"20040024925"				
		"20040027166"	"20040032348"				
		"20040032421"	"20040037433"				
		"20040041836"	"20040042629"				
		"20040044742"	"20040048569"				
		"20040059842"	"20040059965"				
		"20040066736"	"20040071299"				
		"20040075767"	"20040078383"				
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		"20040128701"	"20040131192"				
		"20040133689"	"20040143368"				
		"20040143852"	"20040147224"				
		"20040148237"	"20040168081"				
		"20040170383"	"20040171346"				
		"20040177167"	"20040179554"				
		"20040183827"	"20040185773"				
		"20040203354"	"20040203378"				
		"20040203590"	"20040208158"				
		"20040213230"	"20040220687"				
		"20040223622"	"20040224638"				
		"20040225389"	"20040228367"				
		"20040248601"	"20040249490"				
		"20040249965"	"20040249982"				
		"20040252400"	"20040253969"				
		"20050002535"	"20050010691"				
		"20050011388"	"20050013394"				
		"20050015551"	"20050021470"				
		"20050021590"	"20050027821"				
		"20050031135"	"20050047605"				
		"20050058149"	"20050060435"				

		"20050062637" | "20050069153" | "20050081213" | "20050100174" | "20050105052" | "20050114538" | "20050120128" | "20050125222" | "20050125357" | "20050131558" | "20050144284" | "20050147261" | "20050154766" | "20050159833").PN.				
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		"20090169030" | "20090180632" | "20090193345" | "20090222115" | "20090228919" | "20090232326" | "20090251604" | "20100004983" | "20100010651" | "20100031366" | "20100049835" | "20100052843" | "20100067716" | "20100087089" | "20100142735" | "20100153097" | "20100228740" | "20100272270" | "20100284389" | "20100290643" | "20100299639" | "20110001632" | "20110002487" | "20110044476" | "20110066943" | "20110110533" | "20110170710" | "20110228944" | "20110299696" | "20110316768" | "20120029671" | "20120030366" | "20120047435" | "20120051558" | "20120051567" | "20120060046" | "20120127831" | "20120129446" | "20120148075" | "20120185771" | "20120192071" | "20120207290" | "20120237054" | "20120263325" | "20120281058" | "20120290621" | "20130010970" | "20130018960" | "20130028443" | "20130031475" | "20130038726" | "20130041954" | "20130047084" | "20130051572" | "20130052940" | "20130070093" | "20130080599" | "20130094670" | "20130124664" | "20130129122" | "20130132837" | "20130159126" | "20130167029" | "20130174100" | "20130174223" | "20130179163" | "20130191454" | "20130197682" | "20130208911" | "20130208921" | "20130226323" | "20130230175" | "20130232416" | "20130243199" | "20130253679" | "20130253934" | "20130259254" | "20130279706" | "20130287186" | "20130290504" | "20130293345" | "20140006483" | "20140016784" | "20140016786" | "20140016802" | "20140023196" | "20140037097" | "20140064501").PN.				
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		"20150256954" | "20150281866" | "20150304288" | "20150365987" | "3956591" | "4105974" | "4296278" | "4306114" | "4382158" | "4509211" | "4530091" | "4696037" | "4701629" | "4712105" | "4731814" | "4816989" | "4824059" | "4845751" | "4994908" | "4995778" | "5086385" | "5151922" | "5153579" | "5182552" | "5185680" | "5237327" | "5239458" | "5272757" | "5299266" | "5361381" | "5372441" | "5406634" | "5430485" | "5440644" | "5457448" | "5467342" | "5481251" | "5491839" | "5515345" | "5519641" | "5533021" | "5553147" | "5553222" | "5553314" | "5596696" | "5602992" | "5623483" | "5625350" | "5640388" | "5652749" | "5661665" | "5668884" | "5673323" | "5696896" | "5726989" | "5740235" | "5742623" | "5751819" | "5761320" | "5774016" | "5787249" | "5790543" | "5808662" | "5812201" | "5815689" | "5818948" | "5832024" | "5848152" | "5852722" | "5867691" | "5875233" | "5875354" | "5887143" | "5905768" | "5910991" | "5923869" | "5923902" | "5946343" | "5956025" | "5956088" | "5960006" | "5984512" | "5987611" | "5990884" | "5991307" | "5999906" | "6009457" | "6018376" | "6026150" | "6029196" | "6031818" | "6032202" | "6038614" | "6046550" | "6061457" | "6078725" | "6081266" | "6088063" | "6101195" | "6108485" | "6108686" | "6122668" | "6127941" | "6128318" | "6148205" | "6157957" | "6163647" | "6169725" | "6175872" | "6181383" | "6185737" | "6195435" | "6195436" | "6199169" | "6212282" | "6246701" | "6253293" | "6255961" | "6256554" | "6269406" | "6301012" | "6308207" | "6310652" | "6313879" | "6321252" | "6324586" | "6332147" | "6343028" | "6349285" | "6349339" | "6351821" | "6353172" | "6356871" | "6404811" | "6418150" | "6430353" | "6442443" | "6449642" | "6449653" | "6456783" | "6463474" | "6466832" | "6469633" | "6487296" | "6493832" | "6522886" | "6526325" | "6535121" | "6587127" | "6598172" | "6604023" | "6611537" | "6631410" | "6636269" | "6653899" | "6654720" | "6654956" | "6658091" | "6674803" |			

		"6684060" | "6687664" | "6704421" | "6741961" | "6757517" | "6763274" | "6778073" | "6778493" | "6778869" | "6803964" | "6809635" | "6816510" | "6816818" | "6823225" | "6826283" | "6836788" | "6839752" | "6859460" | "6859538" | "6873862" | "6882335" | "6889207" | "6898642" | "6901439" | "6907458" | "6912610" | "6915347" | "6916980" | "6917592" | "6919771" | "6920373" | "6931134" | "6931557" | "6934766" | "6937988" | "6970482" | "6985694" | "6987767" | "6987947" | "7007106" | "7020791" | "7043477" | "7043651" | "7046677" | "7047308" | "7054888" | "7058889" | "7068596" | "7072477" | "7092528" | "7092694" | "7096169" | "7113999" | "7115017" | "7120168" | "7130316" | "7130368" | "7130608" | "7130616" | "7136934" | "7139981" | "7143141" | "7143939" | "7146260" | "7158488" | "7161939").PN.				
S1673	280	("7162315" | "7171010" | "7185090" | "7187947" | "7197148" | "7206367" | "7206618" | "7206967" | "7209795" | "7218708" | "7236739" | "7236773" | "7257398" | "7260616" | "7263110" | "7277547" | "7286652" | "7289631" | "7293060" | "7295548" | "7302468" | "7305694" | "7308188" | "7310334" | "7312785" | "7313593" | "7319764" | "7324857" | "7330875" | "7333519" | "7346332" | "7356011" | "7359006" | "7366206" | "7372846" | "7391791" | "7392102" | "7392481" | "7400644" | "7412499" | "7424267" | "7428310" | "7430181" | "7457948" | "7472058" | "7474677" | "7483538" | "7483540" | "7483958" | "7490044" | "7492912" | "7505889" | "7509181" | "7519188" | "7519667" | "7539551" | "7548744" | "7548851" | "7558224" | "7558635" | "7561932" | "7571014" | "7574274" | "7599685" | "7606174" | "7626952" | "7627825" | "7630500" | "7630501" | "7631119" | "7643894" | "7653344" | "7657224" | "7657644" | "7657910" | "7665115" | "7668990" | "7669113" | "7669219" | "7672470" | "7675943" | "7676044" | "7676142" | "7688306" | "7689304" | "7689305" | "7702279" | "7702403" | "7710941" | "7711774" | "7720096" | "7721032" |	US-PGPUB; USPAT	OR	ON	2018/08/13 15:00

"7742740" | "7742832" | "7743009" | "7746906" | "7761176" | "7765315" | "7792311" | "7793206" | "7804972" | "7805210" | "7817960" | "7827259" | "7831054" | "7835689" | "7849181" | "7853341" | "7865137" | "7882234" | "7885622" | "7907819" | "7916877" | "7917082" | "7933418" | "7934239" | "7945636" | "7945708" | "7958441" | "7962482" | "7966388" | "7987294" | "7995732" | "7996566" | "7996588" | "8014423" | "8015306" | "8020023" | "8023663" | "8028038" | "8028323" | "8041062" | "8045721" | "8045952" | "8050203" | "8050652" | "8054987" | "8055364" | "8063698" | "8074253" | "8086287" | "8086752" | "8090317" | "8103009" | "8111132" | "8112032" | "8116476" | "8126172" | "8131389" | "8131390" | "8135141" | "8139774" | "8144883" | "8148622" | "8150079" | "8160281" | "8169938" | "8170222" | "8170260" | "8175292" | "8175297" | "8185674" | "8189824" | "8194874" | "8204890" | "8208653" | "8214447" | "8214740" | "8214873" | "8218790" | "8229125" | "8230099" | "8233029" | "8233632" | "8233635" | "8233648" | "8234395" | "8238578" | "8239559" | "8239748" | "8243961" | "8265310" | "8279709" | "8281001" | "8285404" | "8290185" | "8290603" | "8300845" | "8306235" | "8311226" | "8315555" | "8316147" | "8325931" | "8325935" | "8331585" | "8340330" | "8345709" | "8364295" | "8370678" | "8374595" | "8391501" | "8407623" | "8411883" | "8423659" | "8423893" | "8432851" | "8433076" | "8442239" | "8452020" | "8457334" | "8463184" | "8463875" | "8473844" | "8477958" | "8483853" | "8498726" | "8509211" | "8520870" | "8565455" | "8577045" | "8577048" | "8588432" | "8588949" | "8600075" | "8600084" | "8611559" | "8615091" | "8620006" | "8639830" | "8654995" | "8672744" | "8683009" | "8700730" | "8731206" | "8750282" | "8751026" | "8762565" | "8775546" | "8788080" | "8818538" | "8819554" | "8843224" | "8843228" | "8843586" | "8855319" | "8861739" | "8879761" | "8885851" | "8886347" | "8904066" | "8914559" | "8917877" |

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S1675	1030	S1670 S1671 S1672 S1673 S1674	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 15:00
S1676	4	"20080077261" "20020072816"	US-PGPUB;	OR	ON	2018/08/13 15:01

			USPAT; EPO; JPO; DERWENT			
S1677	4	S1676	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 15:01
S1678	1030	(S1670 S1671 S1672 S1673 S1674) and S1675	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 15:01
S1679	2	(S1670 S1671 S1672 S1673 S1674) and S1676	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/13 15:01
S1680	38744	(auto$4sens$4 (automati$6 input$6) near4 sens$6) same (config$8 scene zone group$4) and (synchroniz$8 synchron$4 sync$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/14 13:07
S1681	0	"214234".ap. and button same (sync synchron$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/14 13:33
S1682	13	"514488".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/15 15:18
S1683	0	"214234".ap. and button and (sync synchron$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 14:43
S1684	2	"214234".ap. and button	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 14:43
S1685	1	"214324".ap. and button and (sync synchron$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 14:45
S1686	1	"214324".ap. and button same (sync synchron$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 14:45
S1687	33	sonos.as. and button same (sync synchron$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 14:59
S1688	6	sonos.as. and button same (sync synchron$8) and	US-PGPUB;	OR	ON	2018/08/16 14:59

		@pd<="20130723"	USPAT; EPO; JPO; DERWENT			
S1689	1	sonos.as. and button same (sync synchron$8) and push$6 and @pd<="20130723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 15:02
S1690	0	"20080177822" and push$6 and @pd<="20130723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 15:03
S1691	0	"20080177822" and push$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 15:03
S1692	19	push$6hold$4 and push near4 releas$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 15:03
S1693	2514	(push$4 near3 hold$4 push$6hold$4) same (push$4 near4 releas$4 push$4releas$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 15:04
S1694	72	(push$4 near3 hold$4 push$6hold$4) same (push$4 near4 releas$4 push$4releas$4) and ($6media audio a/v digital) near3 (play$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 15:05
S1695	58	S1694 and @pd<="20130723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/16 15:09
S1697	1	((push$4 near3 hold$4 push$6hold$4) (push$4 near4 releas$4 push$4releas$4)) and "214324".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 11:31
S1698	1	"088944".ap. and gps	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:07
S1699	100	(US-20060223518-$ or US-9442564-$ or US-20110055255-$ or US-7116789-$ or US-20150020003-$ or US-7409218-$ or US-20110083111-$ or US-20040125044-$ or US-20060256074-$ or US-6772195-$ or US-7219303-$ or US-20020123327-$ or US-20060030339-$ or US-6784901-$ or US-20060012814-$ or US-6519454-$ or US-20030217150-$ or US-20020169539-$ or US-6912384-$ or US-20080244704-$ or	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:15

		US-20010034661-$ or US-6292671-$ or US-20060035647-$ or US-20020151316-$ or US-20060221968-$ or US-6633759-$ or US-5890064-$ or US-6993564-$ or US-6615134-$ or US-20030005439-$ or US-20050091359-$ or US-20080043040-$ or US-20080065505-$ or US-20080262910-$ or US-20080290987-$ or US-20090217171-$ or US-6504503-$ or US-6718503-$ or US-20080129688-$ or US-20060045294-$ or US-20150116316-$ or US-20140313295-$ or US-20090147993-$ or US-20100149073-$ or US-20150005587-$ or US-20150046116-$ or US-20150223725-$ or US-20160128587-$ or US-20110238755-$ or US-20060007151-$).did.				
S1700	6720100	(gps geograph$6 timestamp pts)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:15
S1701	5755753	$6phone hand$3held hand near3 (held hold$4) assist$6 pda	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:16
S1702	473241	(gps timestamp$4 pts) same (distance orient$6 position$4 spatial$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:18
S1703	26	S1702 and S1699	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:19
S1704	368	hrtf and S1702	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:19
S1705	1	S1703 and S1704	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:19
S1706	405	(gps timestamp$4 pts) with (head$4track$4 head near4 track$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:20
S1707	21	(origo origio) with S1700	US-PGPUB;	OR	ON	2018/08/17 13:22

			USPAT; EPO; JPO; DERWENT			
S1708	0	(origo origio) with S1700 with S1701	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:22
S1709	1	("2014/0219485").URPN.	USPAT	OR	ON	2018/08/17 13:23
S1710	1122522	hrtf head with (locat$6 position$4 orient$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:24
S1711	1142415	hrtf head with (locat$6 position$4 orient$6 observ$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:25
S1712	92	(origo origio) and S1700	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:25
S1713	19373992	(gps geograph$6 timestamp pts position$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:26
S1714	18047499	(gps geograph$6 time$3stamp$4 pts position positioning)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:29
S1715	519	(origo origio)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:30
S1716	120	S1714 same S1715	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:30
S1717	100	(US-20060223518-$ or US-9442564-$ or US-20110055255-$ or US-7116789-$ or US-20150020003-$ or US-7409218-$ or US-20110083111-$ or US-20040125044-$ or US-20060256074-$ or US-6772195-$ or US-7219303-$ or US-20020123327-$ or US-20060030339-$ or US-6784901-$ or US-20060012814-$ or US-6519454-$ or US-20030217150-$ or US-20020169539-$ or US-6912384-$ or US-20080244704-$ or US-20010034661-$ or US-6292671-$ or US-20060035647-$ or US-20020151316-$ or US-	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:30

		20060221968-$ or US-6633759-$ or US-5890064-$ or US-6993564-$ or US-6615134-$ or US-20030005439-$ or US-20050091359-$ or US-20080043040-$ or US-20080065505-$ or US-20080262910-$ or US-20080290987-$ or US-20090217171-$ or US-6504503-$ or US-6718503-$ or US-20080129688-$ or US-20060045294-$ or US-20150116316-$ or US-20140313295-$ or US-20090147993-$ or US-20100149073-$ or US-20150005587-$ or US-20150046116-$ or US-20150223725-$ or US-20160128587-$ or US-20110238755-$ or US-20060007151-$).did.				
S1718	473241	(gps timestamp$4 pts) same (distance orient$6 position$4 spatial$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:30
S1719	26	S1718 and S1717	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:30
S1720	1139342	hrtf head with (locat$6 position$4 orient$6) gaz$3 with (track$6 determin$5 direct$6 locat$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:32
S1721	1507237	hrtf head with (locat$6 position$4 direct$4 determin$5 orient$6) gaz$3 with (track$6 determin$5 direct$6 locat$6 position$4 orient$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:32
S1722	56	S1715 and S1721	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 13:40
S1723	100	(US-20060223518-$ or US-9442564-$ or US-20110055255-$ or US-7116789-$ or US-20150020003-$ or US-7409218-$ or US-20110083111-$ or US-20040125044-$ or US-20060256074-$ or US-6772195-$ or US-7219303-$ or US-20020123327-$ or US-20060030339-$ or US-6784901-$ or US-20060012814-$ or US-6519454-$ or US-20030217150-$ or US-20020169539-$ or US-6912384-$ or US-20080244704-$ or US-20010034661-$ or US-6292671-$ or US-20060035647-$ or US-20020151316-$ or US-20060221968-$ or US-6633759-$ or	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:34

		US-5890064-$ or US-6993564-$ or US-6615134-$ or US-20030005439-$ or US-20050091359-$ or US-20080043040-$ or US-20080065505-$ or US-20080262910-$ or US-20080290987-$ or US-20090217171-$ or US-6504503-$ or US-6718503-$ or US-20080129688-$ or US-20060045294-$ or US-20150116316-$ or US-20140313295-$ or US-20090147993-$ or US-20100149073-$ or US-20150005587-$ or US-20150046116-$ or US-20150223725-$ or US-20160128587-$ or US-20110238755-$ or US-20060007151-$).did.				
S1724	114280	(gps timestamp$4 pts) and S1721	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:34
S1725	12	S1723 and S1724	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:34
S1726	212201	(gps timestamp$4 pts coordinate longitude latitude) and S1721	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:36
S1727	18	S1723 and S1726	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:36
S1728	1507237	hrtf head with (locat$6 position$4 direct$4 determin$5 orient$6) gaz$3 with (track$6 determin$5 direct$6 locat$6 position$4 orient$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:41
S1729	1120682	(gps timestamp time adj stamp pts coordinate longitude latitude position positioning) and S1728	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:41
S1730	55	(origo origio) and S1729	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:42
S1731	100	(US-20060223518-$ or US-9442564-$ or US-20110055255-$ or US-7116789-$ or US-20150020003-$ or US-7409218-$ or US-20110083111-$ or US-20040125044-$ or US-20060256074-$ or US-6772195-$ or	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:43

		US-7219303-$ or US-20020123327-$ or US-20060030339-$ or US-6784901-$ or US-20060012814-$ or US-6519454-$ or US-20030217150-$ or US-20020169539-$ or US-6912384-$ or US-20080244704-$ or US-20010034661-$ or US-6292671-$ or US-20060035647-$ or US-20020151316-$ or US-20060221968-$ or US-6633759-$ or US-5890064-$ or US-6993564-$ or US-6615134-$ or US-20030005439-$ or US-20050091359-$ or US-20080043040-$ or US-20080065505-$ or US-20080262910-$ or US-20080290987-$ or US-20090217171-$ or US-6504503-$ or US-6718503-$ or US-20080129688-$ or US-20060045294-$ or US-20150116316-$ or US-20140313295-$ or US-20090147993-$ or US-20100149073-$ or US-20150005587-$ or US-20150046116-$ or US-20150223725-$ or US-20160128587-$ or US-20110238755-$ or US-20060007151-$).did.				
S1732	25	S1729 and S1731	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:44
S1733	0	origo$3determin$5 origo$3direct$6 origo$3locat$6 origo$3position$4 origo$3orient$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:51
S1734	519	(origo origio)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:51
S1735	468	(origo)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 14:51
S1736	100	(US-20060223518-$ or US-9442564-$ or US-20110055255-$ or US-7116789-$ or US-20150020003-$ or US-7409218-$ or US-20110083111-$ or US-20040125044-$ or US-20060256074-$ or US-6772195-$ or US-7219303-$ or US-20020123327-$ or US-20060030339-$ or US-6784901-$ or US-20060012814-$ or US-6519454-$ or US-20030217150-$ or US-20020169539-$ or US-6912384-$ or US-20080244704-$ or	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/17 16:31

		US-20010034661-$ or US-6292671-$ or US-20060035647-$ or US-20020151316-$ or US-20060221968-$ or US-6633759-$ or US-5890064-$ or US-6993564-$ or US-6615134-$ or US-20030005439-$ or US-20050091359-$ or US-20080043040-$ or US-20080065505-$ or US-20080262910-$ or US-20080290987-$ or US-20090217171-$ or US-6504503-$ or US-6718503-$ or US-20080129688-$ or US-20060045294-$ or US-20150116316-$ or US-20140313295-$ or US-20090147993-$ or US-20100149073-$ or US-20150005587-$ or US-20150046116-$ or US-20150223725-$ or US-20160128587-$ or US-20110238755-$ or US-20060007151-$).did.				
S1737	13	"088944".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 13:40
S1738	2	"6489901".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 13:53
S1739	3	"20080314232"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 16:12
S1740	2	"20080314232" and analy$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 16:13
S1741	2	"20080314232" and analy$8 and index$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 16:13
S1742	34	jehan.in. and tristan	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 16:22
S1743	72	(push$4 near3 hold$4 push$6hold$4) same (push$4 near4 releas$4 push$4releas$4) and ($6media audio a/v digital) near3 (play$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 17:04
S1744	1	"214324".ap. and S1743	US-PGPUB;	OR	ON	2018/08/21 17:05

			USPAT; EPO; JPO; DERWENT			
S1745	2	sonos.as. and sequent$8 with indicat$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 17:27
S1746	1227	playback near3 device and sequent$8 with indicat$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 17:27
S1747	1363	(playback near3 device zone near3 play$4) and sequent$8 with indicat$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 17:27
S1748	784	(playback near3 device zone near3 play$4) and sequent$8 with indicat$6 and (sync synchron$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 17:28
S1749	615	(playback near3 device zone near3 play$4) and sequent$8 with indicat$6 and (sync synchron$7) and @pd<="20140723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 17:28
S1750	568	(playback near3 device zone near3 play$4) and sequent$8 with indicat$6 and (sync synchron$7) and @pd<="20130723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/21 17:29
S1751	1	"496877".ap. and audio.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 08:32
S1752	11	"20130333055" "20020184189" "9317486"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 10:32
S1753	7	("20130333055" "20020184189" "9317486").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 10:32
S1754	5	("20130333055" "20020184189" "9317486").pn. and (bookmark$4 paus$4 locat$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 10:33
S1755	5	("20130333055" "20020184189" "9317486").pn. and (bookmark$4 paus$4 locat$6) same user	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 10:33
S1756	4	("20130333055" "20020184189" "9317486").pn. and (portion	US-PGPUB;	OR	ON	2018/08/22 10:36

		chapter)	USPAT; EPO; JPO; DERWENT			
S1757	0	("7210102" "8150864").pn. and (book$mark$4 mark$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 10:46
S1758	1	("7210102" "8150864").pn. and (position)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 10:46
S1759	5	("7925993" "20120197998" "20120324324" "20120245720" "7210102" "8150864").pn. and (book$4mark mark$6 paus$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 10:52
S1760	12	"583553".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 12:18
S1761	2	"20170235545"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 12:19
S1762	34078	((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 12:19
S1763	0	"s598" and ((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/08/22 12:21
S1775	228	("20010042107" | "20010043456" | "20010050991" | "20020022453" | "20020026442" | "20020072816" | "20020072817" | "20020078293" | "20020098878" | "20020101357" | "20020124097" | "20020131761" | "20020137505" | "20020150053" | "20020165921" | "20020188762" | "20030014486" | "20030023329" | "20030043856" | "20030063755" | "20030073432" | "20030103088" | "20030157951" | "20030167335" | "20030179780" | "20030185400" | "20030198257" | "20030212802" | "20030219007" | "20030231208" | "20040001591" | "20040014426" | "20040015252" | "20040019807" | "20040023697" | "20040024478" | "20040031853" | "20040037433" | "20040042629" | "20040059842" |	US-PGPUB; USPAT	OR	ON	2018/08/22 12:45

		"20040081099" | "20040117462" | "20040136554" | "20040168081" | "20040171346" | "20040177167" | "20040183827" | "20040185773" | "20040203590" | "20040223622" | "20040237750" | "20040239816" | "20040249490" | "20040252400" | "20040253969" | "20050060435" | "20050100174" | "20050131558" | "20050154766" | "20050160270" | "20050197725" | "20050201549" | "20050281138" | "20060029005" | "20060072489" | "20060089735" | "20060173844" | "20060173972" | "20060205349" | "20060222186" | "20060227985" | "20060229752" | "20060259649" | "20060270395" | "20070003067" | "20070005160" | "20070087686" | "20070142944" | "20070265031" | "20080075295" | "20080077261" | "20080092204" | "20080144864" | "20080146289" | "20080152165" | "20080205070" | "20080215169" | "20080216125" | "20080303947" | "20090011798" | "20090070434" | "20090124289" | "20090251604" | "20100054709" | "20100087089" | "20100142735" | "20100274372" | "20110001632" | "20110002487" | "20110170710" | "20110228944" | "20110316768" | "20120051558" | "20120051567" | "20120127831" | "20120148075" | "20120263325" | "20120275624" | "20120288126" | "20130010970" | "20130022221" | "20130028443" | "20130129122" | "20130259254" | "20140016784" | "20140016786" | "20140016802" | "20140023196" | "20140112481" | "20140219456" | "20140226823" | "20140256260" | "20140294200" | "20140355768" | "20140355794" | "20150063610" | "20150146886" | "20150201274" | "20150281866" | "20150365987" | "3956591" | "4105974" | "4306114" | "4509211" | "4530091" | "4696037" | "4701629" | "4712105" | "4731814" | "4824059" | "4845751" | "4994908" | "4995778" | "5086385" | "5151922" | "5182552" | "5237327" | "5272757" | "5361381" | "5372441" | "5406634" | "5430485" | "5440644" | "5457448" | "5481251" | "5515345" | "5553147" | "5553314" | "5625350" | "5640388" | "5661665" | "5740235" | "5742623" | "5761320" | "5774016" | "5790543" | "5812201" | "5818948" | "5832024" | "5848152" | "5852722" | "5875233" | "5905768" | "5910991" | "5923902" | "5946343" | "5956025" | "5960006"			

		| "5984512" | "5987611" | "5990884" | "5991307" | "5999906" | "6018376" | "6029196" | "6032202" | "6038614" | "6046550" | "6061457" | "6081266" | "6088063" | "6101195" | "6127941" | "6148205" | "6169725" | "6181383" | "6195435" | "6212282" | "6246701" | "6256554" | "6269406" | "6301012" | "6310652" | "6313879" | "6321252" | "6353172" | "6356871" | "6404811" | "6418150" | "6442443" | "6449642" | "6456783" | "6463474" | "6466832" | "6469633" | "6487296" | "6493832" | "6522886" | "6535121" | "6611537" | "6631410" | "6636269" | "6653899" | "6654720" | "6654956" | "6684060" | "6697687" | "6704421").PN.				
S1776	240	("6741961" | "6757517" | "6778073" | "6778869" | "6809635" | "6816510" | "6826283" | "6859460" | "6859538" | "6873862" | "6882335" | "6901439" | "6915347" | "6919771" | "6931557" | "6937988" | "6987767" | "6999827" | "7046677" | "7072477" | "7092528" | "7092694" | "7096169" | "7120168" | "7130316" | "7130608" | "7130616" | "7136934" | "7139981" | "7143939" | "7146260" | "7161939" | "7197148" | "7206618" | "7218708" | "7236773" | "7260616" | "7263110" | "7277547" | "7289631" | "7295548" | "7302468" | "7305694" | "7308188" | "7324857" | "7356011" | "7366206" | "7391791" | "7428310" | "7430181" | "7457948" | "7472058" | "7483538" | "7490044" | "7492912" | "7505889" | "7519188" | "7539551" | "7548744" | "7548851" | "7558224" | "7558635" | "7571014" | "7627825" | "7630500" | "7630501" | "7643894" | "7653344" | "7657910" | "7675943" | "7676044" | "7676142" | "7688306" | "7710941" | "7721032" | "7728911" | "7746906" | "7761176" | "7831054" | "7853341" | "7882234" | "7908637" | "7930644" | "7933418" | "7945636" | "7945708" | "7966388" | "7987294" | "7995732" | "8014423" | "8041062" | "8045952" | "8050203" | "8054987" | "8055363" | "8063698" | "8103009" | "8139774" | "8150079" | "8160281" | "8170222" | "8175292" | "8229125" | "8233029" | "8233632" | "8234395" | "8238578" |	US-PGPUB; USPAT	OR	ON	2018/08/22 12:45

		"8243961" | "8265310" | "8275307" | "8290185" | "8306235" | "8311226" | "8325935" | "8331585" | "8345891" | "8374595" | "8391501" | "8411883" | "8423893" | "8442239" | "8452020" | "8472633" | "8477958" | "8483853" | "8521316" | "8565455" | "8577045" | "8600075" | "8600084" | "8620006" | "8639370" | "8654995" | "8855319" | "8861739" | "8879761" | "8914559" | "8934647" | "8934655" | "8938312" | "8942252" | "8942395" | "8965546" | "8977974" | "8984442" | "9020153" | "9042556" | "9195258" | "D260764" | "D279779" | "D293671" | "D301037" | "D304443" | "D313023" | "D313398" | "D313600" | "D320598" | "D322609" | "D326450" | "D327060" | "D331388" | "D333135" | "D350531" | "D350962" | "D354059" | "D354751" | "D356093" | "D356312" | "D357024" | "D362446" | "D363933" | "D364877" | "D364878" | "D365102" | "D366044" | "D372716" | "D377651" | "D379816" | "D380752" | "D382271" | "D384940" | "D387352" | "D388792" | "D389143" | "D392641" | "D393628" | "D394659" | "D395889" | "D397996" | "D401587" | "D404741" | "D405071" | "D406847" | "D407071" | "D410927" | "D412337" | "D415496" | "D416021" | "D420006" | "D429246" | "D430143" | "D431552" | "D432525" | "D444475" | "D452520" | "D462339" | "D462340" | "D462945" | "D466108" | "D468297" | "D474763" | "D475993" | "D476643" | "D477310" | "D478051" | "D478069" | "D478896" | "D479520" | "D481056" | "D486145" | "D491925" | "D493148" | "D495333" | "D496003" | "D496005" | "D496335" | "D497363" | "D499086" | "D499395" | "D499718" | "D500015" | "D501477" | "D504872" | "D504885" | "D506463" | "D515072" | "D515557" | "D518475" | "D524296" | "D527375").PN.				
S1820	5210	group$5 near3 (level gain fader adjust$4 volume) near4 averag$4	US-PGPUB;	OR	ON	2018/10/12 17:32

			USPAT; EPO; JPO; DERWENT			
S1821	4887	group$5 near3 (level gain fader volume) near4 averag$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:33
S1822	58	group$5 near3 (level gain fader volume) near4 averag$4 with adjust$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:33
S1823	1	S1820 and 381/119.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:34
S1824	23	S1820 and "381".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:36
S1825	19	S1820 and "704".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:37
S1826	5	S1820 and 700/94.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:37
S1827	43	group$5 near3 (level gain fader volume) near4 averag$4 same (audio sound music mixer fader)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:40
S1828	0	master near3 fader with (level gain volume) near4 averag$4 same (audio sound music mixer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:43
S1829	2	fader with (level gain volume) near4 averag$4 same (audio sound music mixer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:43
S1830	462	group$5 near3 (level gain fader volume) and (level gain fader volume)near4 averag$4 same (audio sound music mixer fader)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:44
S1831	47	group$5 near3 (level gain fader volume) and (level gain fader volume)near4 averag$4 same (audio sound music mixer fader) and @pd<="20040401"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/12 17:45
S1832	166	spotify and mood and motion	US-PGPUB;	OR	ON	2018/10/13 14:20

			USPAT; EPO; JPO; DERWENT			
S1833	4944	histor$6 with (motion$4 exercis$4 activ$5) with (parameter$5 metadata)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:20
S1834	4944	histor$6 with (motion$4 exercis$4 activ$5) with (parameter$5 metadata id3$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:21
S1835	4	S1832 and S1834	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:21
S1836	6431	histor$6 with (motion$4 exercis$4 activ$5 recent$4) with (parameter$5 metadata)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:22
S1837	1	S1836 and S1832 not S1835	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:22
S1838	2914	histor$6 with (motion$4 exercis$4 activ$5) with (parameter$5 metadata) and @pd<="20141230"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:23
S1839	10	"20060167943" "20140119564" "20140316305"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:26
S1840	0	S1839 and S1836	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:26
S1841	678	histor$6 with (motion$4 exercis$4 activ$5) with (metadata)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:26
S1842	826	(recent$4 histor$6) with (motion$4 exercis$4 activ$5) with (metadata)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:27
S1843	744	(recent$4 histor$6) with (motion$4 exercis$4 activ$5) with (metadata) and (rest$4 run$4 sit$4 climb$4 $3cycl$4 yoga)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:27
S1844	339	(recent$4 histor$6) with (motion$4 exercis$4 activ$5) with (metadata)	US-PGPUB;	OR	ON	2018/10/13 14:28

		and (rest$4 run$4 sit$4 climb$4 $3cycl$4 yoga)and @pd<="20141230"	USPAT; EPO; JPO; DERWENT			
S1845	339	(recent$4 histor$6) with (motion$4 exercis$4 activ$5) with (metadata) and (rest$4 run$4 sit$4 climb$4 $3cycl$4 yoga)and @pd<="20141230"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:29
S1846	210	(recent$4 histor$6) with (motion$4 exercis$4 activ$5) with (metadata) and (motion$4 exercis$4 activ$5)same (rest$4 run$4 sit$4 climb$4 $3cycl$4 yoga)and @pd<="20141230"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:32
S1847	267	(recent$4 histor$6) with (motion$4 exercis$4 activ$5) with (metadata) and (motion$4 exercis$4 activ$5 metadata)same (rest$4 run$4 sit$4 climb$4 $3cycl$4 yoga)and @pd<="20141230"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:32
S1848	225	(recent$4 histor$6) with (motion$4 exercis$4 activ$5) with (metadata) and (motion$4 exercis$4 activ$5 metadata)same (rest$4 run$4 sit sitt$4 climb$4 $3cycl$4 yoga)and @pd<="20141230"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:34
S1849	307	(recent$4 histor$6) with (motion$4 exercis$4 activ$5) with (metadata) and (motion$4 exercis$4 activ$5 metadata)same (rest$4 run$4 sit sitt$4 climb$4 $3cycl$4 yoga)and user with (histor$5 recent$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:37
S1850	136	(recent$4 histor$6) with (motion$4 exercis$4 activ$5) with (metadata) and (motion$4 exercis$4 activ$5 metadata)same (rest$4 run$4 sit sitt$4 climb$4 $3cycl$4 yoga)and user with (histor$5 recent$6)and @pd<="20141230"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:38
S1851	1	(recent$4 histor$6) and "976462".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:39
S1852	96	(US-5594469-$ or US-20140119564-$ or US-20150362999-$ or US-20160193539-$ or US-20080077261-$ or US-20060167943-$ or US-20060212444-$ or US-20150181314-$ or US-20150182149-$ or US-20140316305-$ or US-20140275854-$ or US-20160029125-$ or US-20060060068-$ or US-20110015765-$ or US-20070204744-$ or US-20160042766-$ or US-20050275626-$ or US-20060107822-$ or US-	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/13 14:40

		20030076301-$ or US-6917373-$ or US-20030068053-$ or US-20030236582-$ or US-7348967-$ or US-20090276707-$ or US-20050021470-$ or US-6526411-$ or US-20070074619-$ or US-6389403-$ or US-6987221-$ or US-20030135464-$ or US-20010018858-$ or US-20030105718-$ or US-20070294710-$ or US-7293060-$ or US-20020116476-$ or US-20070250901-$ or US-20030089218-$ or US-20020082901-$ or US-6941324-$ or US-20080092047-$ or US-6587837-$ or US-6983371-$ or US-6418421-$ or US-6345256-$ or US-7206748-$ or US-7269564-$ or US-20050160270-$ or US-8122049-$ or US-20080076972-$ or US-20020019586-$).did.				
S1853	0	"808875.ap.",	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/19 13:24
S1854	0	"808875".ap. and proport$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/19 13:24
S1855	6	"808875".ap. and averag$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/19 13:25
S1856	1	"808875".ap. and adjust$6 same group$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/19 13:25
S1857	1	"861653".ap. and (averag$6 proportion$4 adjust$6 same group$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/19 13:27
S1858	1	"861653".ap. and (averag$6 proportion$4) same adjust$6 same group$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/19 13:27
S1859	61	"861653"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 10:29
S1860	0	"861653" and "095145".ap.	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2018/10/25 10:30

			DERWENT			
S1861	8	"861653" and averag$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 10:37
S1862	2	"20020124097"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 11:13
S1863	0	"20020124097" and averag$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 11:14
S1864	0	"20020124097" and vu	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 11:14
S1865	3	"861653".ap. and comput$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 11:50
S1866	2	shdema.in. and "20020072816"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 15:56
S1867	1	shdema.in. near2 yoav	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 15:57
S1868	1	shdema.in. near2 yoav and stereo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 15:57
S1869	1	shdema.in. near2 yoav and surround	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 15:57
S1870	1	shdema.in. near2 yoav and surround and stereo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 15:57
S1871	1	shdema.in. near2 yoav and surround and stereo and address$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/25 15:57
S1872	1	shdema.in. near2 yoav and surround and stereo and address$4 and adjust$5	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2018/10/25 15:58

			DERWENT			
S1873	4	pair$4 and "128443".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 10:17
S1874	11	"128443".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 10:18
S1875	6	pair$4 and "629937".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 10:18
S1876	5	pair$4 and "013740".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 10:19
S1877	0	"5519641".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 11:56
S1878	3	"5519641".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 11:56
S1879	85	"5519641"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 11:56
S1880	2	"5519641".pn. and clock	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 11:56
S1881	0	"5519641".pn. and (sync synchron$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 11:58
S1882	1	"5519641".pn. and (stereo surround$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:02
S1883	1	"20020072816" and (stereo surround$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:02
S1884	0	"20020072816" and (mono$9)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2018/10/26 12:10

			DERWENT			
S1885	1	"20020072816" and (stereo surround$4 channel) same address$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:16
S1886	0	"20020072816" and (stereo surround$4 channel) same address$6 and all	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:17
S1887	0	"5519641".pn. and mix$4 with channel$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:18
S1888	1	"5519641".pn. and mix$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:18
S1889	1	"20020072816" and mix$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:18
S1890	2	"5519641".pn. and channel$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:18
S1891	2	"5406634".pn. and mix$4 with channel$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:19
S1892	1	"5406634".pn. and mix$4 with channel$4 and (clock$4 sync synchron$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:20
S1893	2	"861653".ap. and scheme	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:28
S1894	0	"861653".ap. and scheme same (sync synchron$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:28
S1895	2	"861653".ap. and scheme	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:28
S1896	1	"083499".ap. and scheme	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2018/10/26 12:29

			DERWENT			
S1897	1	("013740" "083499").ap. and scheme	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:31
S1898	3	("013740" "083499").ap. and synchron$9 with playback	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:31
S1899	343	381/17.ccls. and (sync synchron$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:51
S1900	814	(381/17,104-109 700/04).ccls. and (sync synchron$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:51
S1901	102	"7689305" and (sync synchron$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:52
S1902	1	"7689305".pn. and (sync synchron$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:52
S1903	97	"7689305" and (sync synchron$9) and clock$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:52
S1904	111	("7962482" "20020002039" "20020124097" "20040117044" "20040223622" "7689305") and (sync synchron$9) and clock$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:53
S1905	107	("7962482" "20020002039" "20020124097" "20040117044" "20040223622" "7689305") and (sync synchron$9) same clock$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:54
S1906	107	("7962482" "20020002039" "20020124097" "20040117044" "20040223622" "7689305") and (sync synchron$9) same clock$6 and (stereo surround channel $6channel)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:54
S1907	104	("7962482" "20020002039" "20020124097" "20040117044" "20040223622" "7689305") and (sync synchron$9) same clock$6 and (stereo surround channel $6channel) and address	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:57
S1908	2	("7962482" "20020002039" "20020124097" "20040117044"	US-PGPUB;	OR	ON	2018/10/26 12:57

		"20040223622" "7689305") and (sync synchron$9) same clock$6 and (stereo surround channel $6channel) and address not sonos.as.	USPAT; EPO; JPO; DERWENT			
S1909	4	("7962482" "20020002039" "20020124097" "20040117044" "20040223622" "7689305") and (sync synchron$9) same clock$6 and (stereo surround channel $6channel) not sonos.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 12:57
S1910	123	("20010042107" | "20020002039" | "20020003548" | "20020022453" | "20020026442" | "20020072816" | "20020098878" | "20020124097" | "20020143547" | "20030020763" | "20030157951" | "20030167335" | "20030177889" | "20030198257" | "20040010727" | "20040015252" | "20040024478" | "20040117044" | "20040131192" | "20040147224" | "20040220687" | "20040223622" | "20040225389" | "20050002535" | "20050021470" | "20050100174" | "20050131558" | "20050144284" | "20050177256" | "20050254505" | "20050289224" | "20050289244" | "20060041616" | "20060149402" | "20060179160" | "20060205349" | "20060229752" | "20070142022" | "20070142944" | "20070189544" | "20070223725" | "20070288610" | "20080025535" | "20080045140" | "20080066094" | "20080066120" | "20080077261" | "20080092204" | "20080144861" | "20080152165" | "20080159545" | "20080162668" | "20090097672" | "20090228919" | "20090232326" | "20100010651" | "20100052843" | "20100153097" | "20100284389" | "20100299639" | "20120047435" | "20130253679" | "20130293345" | "5182552" | "5406634" | "5519641" | "5923902" | "5946343" | "6256554" | "6404811" | "6487296" | "6522886" | "6587127" | "6604023" | "6611537" | "6631410" | "6757517" | "6778869" | "6889207" | "7130608" | "7130616" | "7143939" | "7187947" | "7218708" | "7236773" | "7302468" | "7346332" | "7483538" | "7539551" | "7558224" | "7561932" | "7571014" | "7626952" | "7643894" | "7657910" | "7668990" | "7689305" | "7742832" | "7761176" | "7804972" | "7805210" | "7817960" | "7849181" | "7853341").PN. OR ("7962482" | "8014423" | "8045952" | "8054987" | "8086287" | "8103009" | "8135141" | "8189824" | "8233635" | "8234395" | "8239559" | "8290603" |	US-PGPUB; USPAT; USOCR	OR	ON	2018/10/26 13:02

		"8423893" | "8483853" | "8498726" | "8588432" | "8700730" | "8843228").PN. OR ("9202509").URPN.				
S1911	81	("20020002039" | "20020003548" | "20020072816" | "20020124097" | "20030020763" | "20030167335" | "20030177889" | "20040010727" | "20040015252" | "20040117044" | "20040131192" | "20040223622" | "20040225389" | "20050002535" | "20050021470" | "20050131558" | "20050144284" | "20050289224" | "20060041616" | "20060149402" | "20070142022" | "20070142944" | "20070189544" | "20070288610" | "20080025535" | "20080045140" | "20080077261" | "20080144861" | "20080152165" | "5182552" | "5946343" | "6631410" | "6778869" | "7130608" | "7187947" | "7218708" | "7539551" | "7558224" | "7571014" | "7643894" | "7668990" | "7742832" | "7761176" | "7805210" | "7962482" | "8045952" | "8189824" | "8234395" | "8239559" | "8290603").PN. OR ("8788080").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2018/10/26 13:02
S1912	16	(S1910 S1911) and (sync synchron$9) same clock$6 and (stereo surround channel $6channel) not sonos.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 13:03
S1913	0	"5406634".pn. and mix$4 with channel$4 and (clock$4 same (sync synchron$9))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 17:29
S1914	1	"5406634".pn. and mix$4 with channel$4 and (clock$4 (sync synchron$9))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/26 17:29
S1915	2	"20020072816" and (time timing delay offset)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/27 13:31
S1916	2	"20020072816" and (time timing delay$4 offset$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/27 13:31
S1917	1	"20020072816" and (video image)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/27 13:37
S1918	1	"20020072816" and cross$5	US-PGPUB; USPAT;	OR	ON	2018/10/27 13:43

			EPO; JPO; DERWENT			
S1919	1	"20020072816" and phas$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/27 13:44
S1920	0	"20020072816" and direct$6 with channel	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/27 13:48
S1921	1	"20020072816" and stereo with channel	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/10/27 13:49
S1950	3	"8938637".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2018/12/03 08:51
S1951	2	("20040114771" | "20170188152").PN.	US-PGPUB; USPAT	OR	ON	2018/12/03 08:55
S1952	0	"14976658".ap.	US-PGPUB; USPAT	OR	ON	2018/12/03 09:09
S1953	11	"976658".ap.	US-PGPUB; USPAT	OR	ON	2018/12/03 09:09
S1954	0	"976658".ap. and nickname	US-PGPUB; USPAT	OR	ON	2018/12/03 09:09
S1955	1	"228812".ap. and nickname	US-PGPUB; USPAT	OR	ON	2018/12/03 09:12
S1956	5	("806070" "013740" "853790").ap. and nickname	US-PGPUB; USPAT	OR	ON	2018/12/03 09:13
S1957	0	"861653".ap. and proportion	US-PGPUB; USPAT	OR	ON	2018/12/03 11:16
S1958	0	"861653".ap. and proportion	US-PGPUB; USPAT; DERWENT	OR	ON	2018/12/03 11:16
S1959	9	"861653".ap.	US-PGPUB; USPAT; DERWENT	OR	ON	2018/12/03 11:16
S1960	35	("009182" "013740" "861653").ap.	US-PGPUB; USPAT; DERWENT	OR	ON	2018/12/03 11:53
S1961	9	("009182" "013740" "861653").ap. and setting	US-PGPUB; USPAT;	OR	ON	2018/12/03 11:53

			DERWENT			
S1962	6	("009182" "013740" "861653").ap. and group$5 with (volume setting)	US-PGPUB; USPAT; DERWENT	OR	ON	2018/12/03 12:01
S1963	6	("009182" "013740" "861653").ap. and group$5 same (control$4 volume setting)	US-PGPUB; USPAT; DERWENT	OR	ON	2018/12/03 12:04
S1964	6	("009182" "013740" "861653").ap. and correlat$6	US-PGPUB; USPAT; DERWENT	OR	ON	2018/12/03 17:15
S1965	1	shdema.in. and wireless and $6speaker	US-PGPUB; USPAT; DERWENT	OR	ON	2018/12/03 17:22
S1966	200	("20030210347" | "20040189363" | "20050102699" | "20060215741" | "20080212729" | "6816104" | "20010001160" | "20010009604" | "20010022823" | "20010027498" | "20010032188" | "20010042107" | "20010043456" | "20010046235" | "20010047377" | "20010050991" | "20020002039" | "20020002562" | "20020002565" | "20020003548" | "20020022453" | "20020026442" | "20020034374" | "20020035621" | "20020042844" | "20020049843" | "20020062406" | "20020065926" | "20020067909" | "20020072816" | "20020072817" | "20020073228" | "20020078293" | "20020080783" | "20020090914" | "20020093478" | "20020095460" | "20020098878" | "20020101357" | "20020103635" | "20020109710" | "20020112244" | "20020114354" | "20020114359" | "20020124097" | "20020124182" | "20020129156" | "20020131398" | "20020131761" | "20020136335" | "20020137505" | "20020143998" | "20020150053" | "20020159596" | "20020163361" | "20020165721" | "20020165921" | "20020168938" | "20020173273" | "20020177411" | "20020181355" | "20020184310" | "20020188762" | "20020194260" | "20020194309" | "20030002609" | "20030008616" | "20030014486" | "20030018797" | "20030020763" | "20030023741" | "20030035072" | "20030035444" | "20030041173" | "20030041174" | "20030043856" | "20030043924" | "20030050058" | "20030055892" | "20030061428" | "20030063528" | "20030063755" | "20030066094" | "20030067437" | "20030073432" | "20030097478" | "20030099212" | "20030099221" | "20030101253" | "20030103088" |	US-PGPUB; USPAT	OR	ON	2018/12/03 17:49

		"20030109270" | "20030110329" | "20030118158" | "20030123853" | "20030126211" | "20030135822" | "20030157951" | "20030167335" | "20030172123" | "20030179780" | "20030182254" | "20030185400" | "20030187657" | "20030195964" | "20030198254" | "20030198255" | "20030198257" | "20030200001" | "20030204273" | "20030204509" | "20030210796" | "20030212802" | "20030219007" | "20030227478" | "20030229900" | "20030231208" | "20030231871" | "20030235304" | "20040001106" | "20040001484" | "20040001591" | "20040002938" | "20040008852" | "20040010727" | "20040012620" | "20040014426" | "20040015252" | "20040019497" | "20040019807" | "20040019911" | "20040023697" | "20040024478" | "20040024925" | "20040027166" | "20040032348" | "20040032421" | "20040032922" | "20040037433" | "20040041836" | "20040042629" | "20040044742" | "20040048569" | "20040059842" | "20040059965" | "20040066736" | "20040075767" | "20040078383" | "20040080671" | "20040093096" | "20040098754" | "20040111473" | "20040117462" | "20040117491" | "20040117840" | "20040117858" | "20040128701" | "20040131192" | "20040133689" | "20040143368" | "20040143675" | "20040143852" | "20040148237" | "20040168081" | "20040170383" | "20040171346" | "20040177167" | "20040179554" | "20040183827" | "20040185773" | "20040203378" | "20040203590" | "20040208158" | "20040213230" | "20040223622" | "20040224638" | "20040228367" | "20040248601" | "20040249490" | "20040249965" | "20040249982" | "20040252400" | "20040253969" | "20050010691" | "20050011388" | "20050013394" | "20050015551" | "20050021590" | "20050027821" | "20050047605" | "20050058149" | "20050060435" | "20050062637" | "20050081213" | "20050105052" | "20050114538" | "20050120128" | "20050125222" | "20050125357" | "20050131558" | "20050154766").PN.				
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		"20050262217"	"20050281255"				
		"20050283820"	"20050288805"				
		"20050289224"	"20060041639"				
		"20060049966"	"20060072489"				
		"20060095516"	"20060098936"				
		"20060119497"	"20060142034"				
		"20060143236"	"20060155721"				
		"20060161742"	"20060173844"				
		"20060173976"	"20060193454"				
		"20060222186"	"20060227985"				
		"20060259649"	"20060270395"				
		"20070003067"	"20070022207"				
		"20070038999"	"20070043847"				
		"20070047712"	"20070048713"				
		"20070054680"	"20070087686"				
		"20070142022"	"20070142944"				
		"20070143493"	"20070169115"				
		"20070180137"	"20070192156"				
		"20070249295"	"20070265031"				
		"20070271388"	"20070299778"				
		"20080002836"	"20080007649"				
		"20080007650"	"20080007651"				
		"20080018785"	"20080022320"				
		"20080025535"	"20080060084"				
		"20080072816"	"20080075295"				
		"20080077619"	"20080077620"				
		"20080086318"	"20080091771"				
		"20080120429"	"20080126943"				
		"20080144861"	"20080144864"				
		"20080146289"	"20080189272"				
		"20080205070"	"20080212786"				
		"20080215169"	"20080263010"				
		"20080303947"	"20090011798"				
		"20090017868"	"20090031336"				
		"20090062947"	"20090070434"				
		"20090077610"	"20090089327"				
		"20090100189"	"20090124289"				
		"20090157905"	"20090164655"				
		"20090193345"	"20090222115"				
		"20090222392"	"20090228919"				
		"20090251604"	"20100004983"				
		"20100031366"	"20100049835"				
		"20100087089"	"20100228740"				
		"20100284389"	"20100299639"				
		"20110001632"	"20110002487"				
		"20110066943"	"20110228944"				
		"20110316768"	"20120029671"				
		"20120030366"	"20120051567"				
		"20120060046"	"20120129446"				
		"20120148075"	"20120185771"				
		"20120192071"	"20120207290"				
		"20120237054"	"20120281058"				
		"20120290621"	"20130013757"				
		"20130018960"	"20130031475"				
		"20130038726"	"20130041954"				
		"20130047084"	"20130052940"				
		"20130070093"	"20130080599"				
		"20130094670"	"20130124664"				
		"20130129122"	"20130132837"				
		"20130159126"	"20130167029"				
		"20130174100"	"20130174223"				
		"20130179163"	"20130191454"				
		"20130197682"	"20130208911"				
		"20130208921"	"20130226323"				

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		"6157957" | "6163647" | "6169725" | "6175872" | "6181383" | "6185737" | "6195435" | "6195436" | "6199169" | "6212282" | "6246701" | "6253293" | "6255961" | "6256554" | "6269406" | "6301012" | "6308207" | "6310652" | "6313879" | "6321252" | "6324586" | "6332147" | "6343028" | "6349285" | "6349339" | "6349352" | "6351821" | "6353172" | "6356871" | "6404811" | "6418150" | "6430353" | "6442443" | "6446080" | "6449642" | "6449653" | "6456783" | "6463474" | "6466832" | "6469633" | "6487296" | "6493832" | "6522886" | "6526325" | "6526411" | "6535121" | "6587127" | "6598172" | "6611537" | "6611813" | "6631410" | "6636269" | "6639584" | "6653899" | "6654720" | "6654956" | "6658091" | "6674803" | "6684060" | "6687664" | "6704421" | "6741961" | "6757517" | "6763274" | "6778073" | "6778493" | "6778869" | "6795852" | "6803964" | "6809635" | "6816510" | "6816818" | "6823225" | "6826283" | "6836788" | "6839752" | "6859460" | "6859538" | "6873862" | "6882335" | "6898642" | "6901439" | "6907458" | "6910078" | "6912610" | "6915347" | "6917592" | "6919771" | "6920373" | "6931557" | "6934766" | "6937988" | "6970482" | "6985694" | "6987767" | "7006758" | "7007106" | "7020791" | "7043477" | "7043651" | "7046677" | "7047308" | "7054888" | "7058889" | "7068596" | "7092528" | "7092694" | "7096169" | "7102513" | "7106224" | "7113999" | "7115017" | "7120168" | "7130316" | "7130368" | "7130608" | "7130616" | "7136934" | "7139981" | "7143141" | "7143939" | "7146260" | "7158488" | "7161939" | "7162315" | "7164694" | "7167765" | "7185090" | "7187947" | "7188353" | "7197148" | "7206367" | "7206618" | "7206967" | "7209795" | "7218708" | "7218930" | "7236739" | "7236773" | "7251533" | "7257398" | "7260616" | "7263070" | "7263110" | "7277547" | "7286652" | "7289631" | "7293060" | "7295548" | "7305694" | "7308188" | "7310334" | "7312785" | "7313593" | "7319764" | "7324857" | "7330875" | "7333519" | "7356011" | "7359006" |			

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		| "8509211" | "8520870" | "8565455" | "8577048" | "8588949" | "8600084" | "8611559" | "8615091" | "8639830" | "8654995" | "8672744" | "8683009" | "8689036" | "8731206" | "8750282" | "8751026" | "8762565" | "8775546" | "8818538" | "8819554" | "8831761" | "8843586" | "8861739" | "8868698" | "8885851" | "8904066" | "8917877" | "8930006" | "8934647" | "8934655" | "8938637" | "8942252" | "8942395" | "8954177" | "8965544" | "8966394" | "9042556" | "9130770" | "9137602" | "9160965" | "9195258" | "9456243" | "9507780" | "D260764" | "D279779" | "D293671" | "D301037" | "D304443" | "D313023" | "D313398" | "D313600" | "D320598" | "D322609" | "D326450" | "D327060" | "D331388" | "D333135" | "D350531" | "D350962" | "D354059" | "D354751" | "D356093" | "D356312" | "D357024" | "D362446" | "D363933" | "D364877" | "D364878" | "D365102" | "D366044" | "D372716" | "D377651" | "D379816" | "D380752" | "D382271" | "D384940" | "D387352" | "D388792" | "D389143" | "D392641" | "D393628" | "D394659" | "D395889" | "D397996" | "D401587" | "D404741" | "D405071" | "D406847" | "D407071" | "D410927" | "D412337" | "D415496" | "D416021" | "D420006" | "D429246" | "D430143" | "D431552" | "D432525" | "D444475" | "D452520" | "D462339" | "D462340" | "D462945" | "D466108" | "D468297" | "D474763" | "D475993" | "D476643" | "D477310" | "D478051" | "D478069" | "D478896" | "D479520" | "D481056" | "D486145" | "D491925" | "D493148" | "D495333" | "D496003" | "D496005" | "D496335" | "D497363" | "D499086" | "D499395" | "D499718" | "D500015" | "D501477" | "D504872" | "D504885" | "D506463" | "D515072" | "D515557" | "D518475" | "D524296" | "D527375" | "RE41608").PN.				

S1970	1	S1965 and (S1967 S1968 S1969 S1966)	US-PGPUB; USPAT; DERWENT	OR	ON	2018/12/03 17:50
S1971	1	"405931".ap. and (theatre theater consolid$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/01 18:07
S1972	0	"405931".ap. and (audio near3 data8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/01 18:11
S1973	1	"405931".ap. and (audio near3 data)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/01 18:11
S1974	5	("20040114771" | "20060045281" | "20130236029" | "20150286360" | "20170188152").PN.	US-PGPUB; USPAT	OR	ON	2019/01/01 18:15
S1975	2	"20070087686"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/01 18:18
S1976	1	"20170134855" and determin$6 same player	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/02 09:01
S1977	1	"20170134855" and determin$6 same (device playback player)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/02 09:01
S1978	14	"507433".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/02 09:10
S1979	2	"20170134855" and zone near2 play$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/02 10:36
S1980	1	"20170134855" and determin$6 same (pair$4 device playback player)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/02 10:39
S1981	1	"20020072816" and (stereo surround)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/02 12:11
S1982	1	"20020072816" and (sub "5.1")	US-PGPUB; USPAT;	OR	ON	2019/01/02 12:48

			EPO; JPO; DERWENT			
S1983	1	"507433".ap. and learn$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/01/04 10:03
S2138	166138	power near4 (optimiz$6 estimat$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/02/22 14:29
S2211	2	("20060215741" | "20080212729").PN.	US-PGPUB; USPAT	OR	ON	2019/03/01 16:38
S2212	2	"808875".ap. and synchron$8	US-PGPUB; USPAT	OR	ON	2019/03/01 16:39
S2213	1	"20160021479"	US-PGPUB; USPAT	OR	ON	2019/03/01 16:40
S2214	83529	((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2019/03/01 16:41
S2304	200	("20020002562" | "20020002565" | "20020003548" | "20020022453" | "20020026442" | "20020034374" | "20020042844" | "20020049843" | "20020062406" | "20020065926" | "20020067909" | "20020072816" | "20020072817" | "20020073228" | "20020078161" | "20020078293" | "20020080783" | "20020090914" | "20020093478" | "20020095460" | "20020098878" | "20020101357" | "20020103635" | "20020109710" | "20020112244" | "20020114354" | "20020114359" | "20020124097" | "20020129156" | "20020131398" | "20020131761" | "20020136335" | "20020137505" | "20020143547" | "20020143998" | "20020150053" | "20020159596" | "20020163361" | "20020165721" | "20020165921" | "20020168938" | "20020173273" | "20020177411" | "20020181355" | "20020184310" | "20020188762" | "20020194309" | "20020196951" | "20030002609" | "20030002689" | "20030008616" | "20030014486" | "20030018797" | "20030020763" | "20030023741" | "20030031333" | "20030035072" | "20030035444" | "20030041173" | "20030041174" | "20030043856" | "20030043924" | "20030055892" |	US-PGPUB; USPAT	OR	ON	2019/05/24 17:12

		"20030063755"	"20030066094"				
		"20030067437"	"20030073432"				
		"20030091322"	"20030097478"				
		"20030099212"	"20030099221"				
		"20030101253"	"20030103088"				
		"20030110329"	"20030126211"				
		"20030135822"	"20030157951"				
		"20030161479"	"20030167335"				
		"20030172123"	"20030177889"				
		"20030179780"	"20030185400"				
		"20030195964"	"20030198254"				
		"20030198255"	"20030198257"				
		"20030200001"	"20030204273"				
		"20030204509"	"20030210796"				
		"20030212802"	"20030219007"				
		"20030227478"	"20030229900"				
		"20030231208"	"20030231871"				
		"20030235304"	"20040001106"				
		"20040001484"	"20040001591"				
		"20040008852"	"20040010727"				
		"20040012620"	"20040014426"				
		"20040015252"	"20040019497"				
		"20040019807"	"20040019911"				
		"20040023697"	"20040024478"				
		"20040024925"	"20040027166"				
		"20040032348"	"20040032421"				
		"20040037433"	"20040041836"				
		"20040042629"	"20040044742"				
		"20040048569"	"20040059842"				
		"20040059965"	"20040066736"				
		"20040071299"	"20040075767"				
		"20040078383"	"20040080671"				
		"20040093096"	"20040098754"				
		"20040111473"	"20040114771"				
		"20040117044"	"20040117462"				
		"20040128701"	"20040131192"				
		"20040133689"	"20040143368"				
		"20040143852"	"20040147224"				
		"20040148237"	"20040168081"				
		"20040170383"	"20040171346"				
		"20040177167"	"20040179554"				
		"20040183827"	"20040185773"				
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		"20040203590"	"20040208158"				
		"20040213230"	"20040220687"				
		"20040223622"	"20040224638"				
		"20040225389"	"20040228367"				
		"20040248601"	"20040249490"				
		"20040249965"	"20040249982"				
		"20040252400"	"20040253969"				
		"20050002535"	"20050010691"				
		"20050011388"	"20050013394"				
		"20050015551"	"20050021470"				
		"20050021590"	"20050027821"				
		"20050031135"	"20050047605"				
		"20050058149"	"20050060435"				
		"20050062637"	"20050069153"				
		"20050081213"	"20050100174"				
		"20050105052"	"20050114538"				
		"20050120128"	"20050125222"				
		"20050125357"	"20050131558"				
		"20050144284"	"20050147261"				
		"20050154766"	"20050159833"				
		"20050160270"	"20050166135"				

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		"20130080599"	"20130094670"				
		"20130124664"	"20130129122"				
		"20130132837"	"20130159126"				
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S2798	167	"s2424"	US-	OR	ON	2019/11/22

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S2956	760	((("SONOS") near3 ("INC"))).AS,AANM.	USPAT	OR	ON	2020/01/07 13:37
S2957	401	((("LAMBOURNE") near3 ("Robert")) OR (("MILLINGTON") near3 ("Nicholas"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/01/07 13:37
S2958	969	S2956 S2957	US-PGPUB; USPAT; DERWENT	OR	ON	2020/01/07 13:50
S2959	382	S2958 and group$6.ab,clm.	US-PGPUB; USPAT; DERWENT	OR	ON	2020/01/07 13:50
S2960	49	S2958 and group$6.ab,clm. same volume same (control$4 setting fader)	US-PGPUB; USPAT; DERWENT	OR	ON	2020/01/07 13:51
S2961	65	S2958 and group$6.ab,clm. same (level volume amplitude) same (control$4 setting fader adjust$5)	US-PGPUB; USPAT; DERWENT	OR	ON	2020/01/07 13:51
S2962	9	S2958 and group$6.ab,clm. same (level volume amplitude) same (control$4 setting fader adjust$5) and ("035112" "619237" "808875" "234355" "806070" "095145" "481158" "913222").ap.	US-PGPUB; USPAT; DERWENT	OR	ON	2020/01/07 13:55
S2963	11	S2958 and group$6.ab,clm. and (level volume amplitude) and	US-PGPUB;	OR	ON	2020/01/07 13:59

		(control$4 setting fader adjust$5) and ("035112" "619237" "808875" "234355" "806070" "095145" "481158" "913222").ap.	USPAT; DERWENT			
S2973	14	"727742".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/11 11:52
S2974	1	"727742".ap. and character	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/11 11:52
S2975	4495	vtt	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/11 11:54
S2976	2	vtt and edit$4 NEAR4 TEXT WITH (DICTAT$6 VOICE)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/11 11:55
S2977	49	(STT vtt) and edit$4 NEAR4 TEXT WITH (DICTAT$6 VOICE)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/11 11:58
S2978	8	"20080235021" "20100217596" "20060149544"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/11 12:00
S2979	3	S2978 AND DISPLAY$6 NEAR6 (TEXT CHARACTER EDIT$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/11 12:02
S2980	2	"20180286459" and (writ$6 character$6) same2 edit$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/11 12:20
S2981	2	"20180286459" and (writ$6 character$6) with edit$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/11 12:23
S2982	14	("20010020193" | "20070220150" | "20080109852" | "5197099" | "5642171" | "6119239" | "6122749" | "6703940" | "6870934" | "7269338" | "7313384" | "8270631" | "8601394" | "8688431").PN.	US-PGPUB; USPAT	OR	ON	2020/01/21 12:45
S2983	764	((("SONOS") near3 ("INC"))).AS,AANM.	USPAT	OR	ON	2020/01/21 13:07
S2984	161	((("LAMBOURNE") near3 ("Robert"))).INV.	US-PGPUB; USPAT;	OR	ON	2020/01/21 13:07

			USOCR; EPO; JPO; DERWENT			
S2994	7	("4962535" "20110320201" "20130010974").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/21 15:09
S2995	19	("9356795" | "20130273948" | "20150347827" | "8818439" | "20140139454" | "20190149919" | "20140201276" | "9142062" | "20170316803").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/24 09:13
S2996	7	("4962535" "20110320201" "20130010974").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/24 09:39
S2997	14	("20010020193" | "20070220150" | "20080109852" | "5197099" | "5642171" | "6119239" | "6122749" | "6703940" | "6870934" | "7269338" | "7313384" | "8270631" | "8601394" | "8688431").PN.	US-PGPUB; USPAT	OR	ON	2020/01/24 09:39
S2998	194398	700/94.ccls. ((G06F3/165 OR G06F16/433 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/162 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R2430/01 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H03G1/02 OR H03G7/00 OR H04S2400/01 OR H04S7/30 OR H04S2400/13 OR H04S3/008 OR H04S7/308 OR G05B15/02 OR G11B19/02 OR H04H60/80 OR H04N21/4307 OR H04N21/43615 OR H04N21/43637 OR H04N21/4852 OR H04N21/8106).CPC.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2020/01/27 09:11
S3039	200	("10133536" | "10157033" | "10175930" | "20010001160" | "20010009604" | "20010020193" | "20010022823" | "20010027498" | "20010032188" | "20010042107" | "20010043456" | "20010046235" | "20010047377" | "20010050991" | "20020002039" | "20020002562" | "20020002565" | "20020003548" | "20020022453" | "20020026442" | "20020034374" | "20020042844" | "20020049843" | "20020062406" | "20020065926" | "20020067909" | "20020072816" | "20020072817" | "20020073228" | "20020078161" | "20020078293" | "20020080783" | "20020090914" | "20020093478" | "20020095460" | "20020098878" | "20020101357" | "20020103635" | "20020109710" | "20020112244" |	US-PGPUB; USPAT	OR	ON	2020/01/27 10:09

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		"20020131398"	"20020131761"				
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		"20020143547"	"20020143998"				
		"20020150053"	"20020159596"				
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		"20020165921"	"20020168938"				
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		"20020196951"	"20030002609"				
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		"20030014486"	"20030018797"				
		"20030020763"	"20030023741"				
		"20030031333"	"20030035072"				
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S3046	225	("2004/0041836").URPN.	USPAT	OR	ON	2020/01/27 11:09

EAST Search History (Interference)

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		OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
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S95	5669	S93 and ($6zone scene configu$8) and discov$6	US-PGPUB; USPAT	OR	ON	2014/05/16 12:28
S96	2883	S93 and ($6zone scene configu$8) and discov$6 and (speaker transducer loud$3speaker)	US-PGPUB; USPAT	OR	ON	2014/05/16 12:29
S97	9885	S93 and ($6zone scene configu$8) same (speaker transducer loud$3speaker)	US-PGPUB; USPAT	OR	ON	2014/05/16 12:29
S98	2917	S93 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB;	OR	ON	2014/05/16 12:29

			USPAT			
S99	139546	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR	US-PGPUB; USPAT	OR	ON	2014/05/16 12:30

		G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S100	98841	S93 and "16"	US-PGPUB; USPAT	OR	ON	2014/05/16 12:30
S101	7856	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2014/05/16 12:30
S102	3065	S101 and S99	US-PGPUB; USPAT	OR	ON	2014/05/16 12:30
S103	222	S102 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/05/16 12:30
S104	57	S102 and ($6zone scene configu$8).ab. and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/05/16 12:31

S105	54904	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2014/05/16 12:32
S106	3448	S101 and S105	US-PGPUB; USPAT	OR	ON	2014/05/16 12:32
S110	2	"20060165184"	US-PGPUB; USPAT	OR	ON	2014/05/16 13:22
S111	2	"20070094036"	US-PGPUB; USPAT	OR	ON	2014/05/16 13:24
S112	116463	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR	US-PGPUB; USPAT	OR	ON	2014/05/16 13:26

		G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR				

		H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S113	2883	S112 and ($6zone scene configu$8) and discov$6 and (speaker transducer loud$3speaker)	US-PGPUB; USPAT	OR	ON	2014/05/16 13:26
S114	1	"Term Removed" and spatial near5 parameter	US-PGPUB; USPAT	OR	ON	2014/05/16 13:45
S115	1	"Term Removed" and second with temporary	US-PGPUB; USPAT	OR	ON	2014/05/16 13:52
S116	10	"Term Removed"	US-PGPUB; USPAT	OR	ON	2014/05/16 14:06
S117	8030	($6zone scene configu$8).ab. and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/05/16 14:31
S118	801	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2014/05/16 14:31
S119	3	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and "s88"	US-PGPUB; USPAT	OR	ON	2014/05/16 14:31
S120	637	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S112	US-PGPUB; USPAT	OR	ON	2014/05/16 14:32
S121	7856	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2014/05/16 14:32
S122	4814	S112 and S121	US-PGPUB; USPAT	OR	ON	2014/05/16 14:32
S123	9	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S122	US-PGPUB; USPAT	OR	ON	2014/05/16 14:32
S124	41	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S122	US-PGPUB; USPAT	OR	ON	2014/05/16 14:33
S125	4362	second near3 play$5 near4 (media song title)	US-PGPUB; USPAT	OR	ON	2014/05/16 14:33
S126	15	S124 and S125	US-PGPUB; USPAT	OR	ON	2014/05/16 14:33
S127	457	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S125	US-PGPUB; USPAT	OR	ON	2014/05/16 14:33
S128	104740	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR	US-PGPUB; USPAT	OR	ON	2014/05/16 14:34

		G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S129	3019	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2014/05/16 14:34
S130	1479	second near3 play$5 near4 (media song title) and S128	US-PGPUB; USPAT	OR	ON	2014/05/16 14:35
S131	218	S129 and S130	US-PGPUB; USPAT	OR	ON	2014/05/16 14:35
S132	104740	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2014/05/16 20:51
S133	3019	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2014/05/16 20:51
S134	1479	second near3 play$5 near4 (media song title) and S132	US-PGPUB;	OR	ON	2014/05/16 20:51

			USPAT			
S135	218	S133 and S134	US-PGPUB; USPAT	OR	ON	2014/05/16 20:51
S136	116463	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR	US-PGPUB; USPAT	OR	ON	2014/05/16 20:52

		H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S137	139546	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR	US-PGPUB; USPAT	OR	ON	2014/05/16 20:52

		H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR				

		H04W8/22).CPC.)				
S138	7856	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2014/05/16 20:52
S139	3065	S138 and S137	US-PGPUB; USPAT	OR	ON	2014/05/16 20:52
S140	222	S139 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/05/16 20:52
S141	116463	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR	US-PGPUB; USPAT	OR	ON	2014/05/16 20:52

		H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S142	83800	S141 and ($6zone scene configu$8)	US-PGPUB; USPAT	OR	ON	2014/05/16 20:52
S143	0	"Term Removed" and the adj predetermined.clm.	US-PGPUB; USPAT	OR	ON	2014/05/16 20:54
S144	2	"Term Removed" and predetermined.clm.	US-PGPUB; USPAT	OR	ON	2014/05/16 20:55
S145	1	"Term Removed" and code.clm.	US-PGPUB; USPAT	OR	ON	2014/05/16 20:56
S146	1	galand.in. and varying.ti.	US-PGPUB; USPAT	OR	ON	2014/05/16 21:03
S147	5	"Term Removed" and compar$8	US-PGPUB; USPAT	OR	ON	2014/05/16 21:03
S148	0	liljyerd.in.	US-PGPUB; USPAT	OR	ON	2014/05/16 21:05
S149	0	lilyjerd.in.	US-PGPUB; USPAT	OR	ON	2014/05/16 21:05
S150	7	liljeryd.in. and enhancement.ti.	US-PGPUB; USPAT	OR	ON	2014/05/16 21:06
S151	1	"Term Removed" and cod$4.clm.	US-PGPUB; USPAT	OR	ON	2014/05/16 21:11
S152	173	galand.in. liljeryd.in. and (modulat$5 frequency with modulat$5)	US-PGPUB; USPAT	OR	ON	2014/05/16 21:18
S153	50	(galand.in. liljeryd.in.) and (modulat$5	US-	OR	ON	2014/05/16

		frequency with modulat$5)	PGPUB; USPAT			21:18
S154	8	(galand.in. liljeryd.in.) and (modulat$5 frequency with modulat$5) and (varying.ti. enhancement.ti.)	US-PGPUB; USPAT	OR	ON	2014/05/16 21:18
S155	1	"Term Removed" and high adj frequency.clm.	US-PGPUB; USPAT	OR	ON	2014/05/16 21:27
S156	8	(galand.in. liljeryd.in.) and (high adj frequency) and (varying.ti. enhancement.ti.)	US-PGPUB; USPAT	OR	ON	2014/05/16 21:27
S157	1	"Term Removed" and high adj frequency	US-PGPUB; USPAT	OR	ON	2014/05/16 21:29
S158	1	"Term Removed" and high adj frequency with complement$5	US-PGPUB; USPAT	OR	ON	2014/05/16 21:30
S159	6	qmf and high adj frequency with complement$5	US-PGPUB; USPAT	OR	ON	2014/05/16 21:31
S163	139776	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR	US-PGPUB; USPAT	OR	ON	2014/05/19 09:18

		H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR					

		H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S164	7856	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2014/05/19 09:18
S165	3070	S164 and S163	US-PGPUB; USPAT	OR	ON	2014/05/19 09:18
S166	222	S165 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/05/19 09:18
S167	57	S165 and ($6zone scene configu$8).ab. and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/05/19 09:18
S168	801	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2014/05/19 09:18
S169	2	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	ON	2014/05/19 09:19
S173	821	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2014/07/15 11:04
S174	3	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and "s88"	US-PGPUB; USPAT	OR	ON	2014/07/15 11:05
S175	106524	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2014/07/15 11:05
S176	1530	second near3 play$5 near4 (media song title) and S175	US-PGPUB; USPAT	OR	ON	2014/07/15 11:05
S177	821	zone with play$4 and play$5 with	US-	OR	ON	2014/07/15

		different near3 (song media content) and (sync synchron$8)	PGPUB; USPAT			11:05
S178	2	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2014/07/15 11:10
S179	15	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2014/07/15 11:11
S180	1	"20120263318"	US-PGPUB; USPAT	OR	ON	2014/07/15 11:12
S181	3139	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2014/07/15 11:13
S182	110	S181 and 700/94	US-PGPUB; USPAT	OR	ON	2014/07/15 11:14
S183	93	S181 and (700/94.ccls. 704/500-502.ccls.)	US-PGPUB; USPAT	OR	ON	2014/07/15 11:19
S184	243	S181 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2014/07/15 11:20
S185	3	S184 and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2014/07/15 11:20
S186	4	"8275307"	US-PGPUB; USPAT	OR	ON	2014/07/15 11:25
S187	1452	active with audio with detect$6	US-PGPUB; USPAT	OR	ON	2014/07/15 11:25
S198	7	("20020098878" | "20020196134" | "20060046756" | "20070127734" | "4941187" | "6181334" | "6778073").PN.	US-PGPUB; USPAT	OR	ON	2014/07/15 13:05
S199	30	("2002/0098878").URPN.	USPAT	OR	ON	2014/07/15 13:08
S200	3	("8275307").URPN.	USPAT	OR	ON	2014/07/15 13:14
S201	3139	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2014/07/15 13:17
S202	243	S201 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2014/07/15 13:17
S203	243	S202 and S202	US-PGPUB; USPAT	OR	ON	2014/07/15 13:17
S204	1452	active with audio with detect$6	US-PGPUB; USPAT	OR	ON	2014/07/15 13:17

S205	1452	S204	US-PGPUB; USPAT	OR	ON	2014/07/15 13:17
S206	7	S203 and S204	US-PGPUB; USPAT	OR	ON	2014/07/15 13:17
S236	721	g06f17/30772.cpc.	US-PGPUB; USPAT	OR	ON	2014/11/26 13:34
S237	721	S236	US-PGPUB; USPAT	OR	ON	2014/11/26 13:34
S238	161	704/500-502.ccls. and 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2014/11/26 13:53
S239	161	S238	US-PGPUB; USPAT	OR	ON	2014/11/26 13:53
S240	107060	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR	US-PGPUB; USPAT	OR	ON	2014/11/26 13:54

		G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S241	3224	S240 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/11/26 13:54
S242	3224	S241	US-PGPUB; USPAT	OR	ON	2014/11/26 13:54
S243	58727	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR	US-PGPUB; USPAT	OR	ON	2014/11/26 13:55

		H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S244	58727	S243	US-PGPUB; USPAT	OR	ON	2014/11/26 13:55
S245	8643	($6zone scene configu$8).ab. and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/11/26 13:56
S246	8643	S245	US-PGPUB; USPAT	OR	ON	2014/11/26 13:56
S247	107060	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR	US-PGPUB; USPAT	OR	ON	2014/11/26 13:56

		G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S248	8352	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2014/11/26 13:56
S249	5166	S247 and S248	US-PGPUB; USPAT	OR	ON	2014/11/26 13:56
S250	15	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S249	US-PGPUB; USPAT	OR	ON	2014/11/26 13:56
S251	15	S250	US-PGPUB; USPAT	OR	ON	2014/11/26 13:56
S252	5166	S249	US-PGPUB; USPAT	OR	ON	2014/11/26 13:57
S253	154604	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR	US-PGPUB;	OR	ON	2014/11/26 13:57

		H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR	USPAT				

		G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S254	8352	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2014/11/26 13:57
S255	3355	S254 and S253	US-PGPUB; USPAT	OR	ON	2014/11/26 13:57
S256	3355	S255	US-PGPUB; USPAT	OR	ON	2014/11/26 13:57
S257	107060	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR	US-PGPUB; USPAT	OR	ON	2014/11/26 13:58

		G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR				

		H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S258	107060	S257	US-PGPUB; USPAT	OR	ON	2014/11/26 13:58
S259	78439	S257 and ($6zone scene configu$8)	US-PGPUB; USPAT	OR	ON	2014/11/26 13:59
S260	78439	S259	US-PGPUB; USPAT	OR	ON	2014/11/26 13:59
S261	154604	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR	US-PGPUB; USPAT	OR	ON	2014/11/26 14:09

		G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S262	8352	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2014/11/26 14:09

S263	3355	S262 and S261	US-PGPUB; USPAT	OR	ON	2014/11/26 14:09
S264	3355	S263	US-PGPUB; USPAT	OR	ON	2014/11/26 14:09
S265	60	S263 and ($6zone scene configu$8).ab. and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/11/26 14:11
S266	60	S265	US-PGPUB; USPAT	OR	ON	2014/11/26 14:11
S267	110511	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2014/11/26 14:16
S268	1604	second near3 play$5 near4 (media song title) and S267	US-PGPUB; USPAT	OR	ON	2014/11/26 14:16
S269	1604	S268	US-PGPUB; USPAT	OR	ON	2014/11/26 14:16
S270	3221	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2014/11/26 14:27
S271	253	S270 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2014/11/26 14:27
S272	253	S271	US-PGPUB; USPAT	OR	ON	2014/11/26 14:27
S273	253	S271	US-PGPUB; USPAT	OR	ON	2014/11/26 14:42
S274	4	S271 and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart	US-PGPUB;	OR	ON	2014/11/26 14:42

		intelligent sens$6 determin$6)	USPAT			
S275	4	S274	US-PGPUB; USPAT	OR	ON	2014/11/26 14:42
S276	5	700/94.ccls. and state near3 chang$3 with (audio signal output input) and $5speaker with network	US-PGPUB; USPAT	OR	ON	2014/11/26 14:44
S277	1107880	(output pair$5 channel surround$4) with config$8	US-PGPUB; USPAT	OR	ON	2014/11/26 14:49
S278	65	S277 and S271	US-PGPUB; USPAT	OR	ON	2014/11/26 15:02
S279	4901	(output pair$5 channel surround$4) with config$8 and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2014/11/26 15:08
S280	9	(S270 S271) and S279	US-PGPUB; USPAT	OR	ON	2014/11/26 15:08
S281	0	("2014/0324202").URPN.	USPAT	OR	ON	2014/11/26 15:14
S282	0	("2013/0287228").URPN.	USPAT	OR	ON	2014/11/26 15:14
S283	2	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2014/11/26 15:32
S284	1282	(output pair$5 channel surround$4) with config$8 and network$6 near5 $6speak$6 and "48"	US-PGPUB; USPAT	OR	ON	2014/11/26 15:32
S285	1	(output pair$5 channel surround$4) with config$8 and network$6 near5 $6speak$6 and S283	US-PGPUB; USPAT	OR	ON	2014/11/26 15:32
S286	1189	(scene config$8 zone) same play$4 and S279	US-PGPUB; USPAT	OR	ON	2014/11/26 15:33
S287	461	(S267 S271) and S279	US-PGPUB; USPAT	OR	ON	2014/11/26 15:34
S288	252	(scene config$8 zone) same play$4 and S287	US-PGPUB; USPAT	OR	ON	2014/11/26 15:35
S293	3221	S270	US-PGPUB; USPAT	OR	ON	2014/11/26 15:45
S294	107133	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR	US-PGPUB; USPAT	OR	ON	2014/12/01 10:16

		G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR				

		H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S295	3229	S294 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/12/01 10:16
S296	2	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2014/12/01 10:17
S297	1	(output pair$5 channel surround$4) with config$8 and network$6 near5 $6speak$6 and S296	US-PGPUB; USPAT	OR	ON	2014/12/01 10:17
S298	8355	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2014/12/01 10:18
S299	5167	S294 and S298	US-PGPUB; USPAT	OR	ON	2014/12/01 10:19
S300	1827	(output pair$5 channel surround$4) with config$8 and S299	US-PGPUB; USPAT	OR	ON	2014/12/01 10:19
S301	86	(output pair$5 channel surround$4) with config$8 and network$6 near5 $6speak$6 and S299	US-PGPUB; USPAT	OR	ON	2014/12/01 10:19
S302	0	("2013/0178963").URPN.	USPAT	OR	ON	2014/12/01 10:26
S303	77	cosine near2 transform same ahmed	USPAT	OR	ON	2014/12/01 10:28
S304	101	cosine near2 transform same ahmed	US-PGPUB; USPAT	OR	ON	2014/12/01 10:28
S305	60	cosine near2 transform same ahmed same natarajan	US-PGPUB; USPAT	OR	ON	2014/12/01 10:28
S306	1	video adj codec with jain	US-PGPUB; USPAT	OR	ON	2014/12/01 10:28
S307	1	video with codec with jain	US-PGPUB; USPAT	OR	ON	2014/12/01 10:29
S308	448	video with codec with motion with compensation	US-PGPUB; USPAT	OR	ON	2014/12/01 10:29
S309	0	video with codec with motion with compensation same jain	US-PGPUB; USPAT	OR	ON	2014/12/01 10:30
S310	6	video with codec with motion with compensation and jain	US-PGPUB; USPAT	OR	ON	2014/12/01 10:30
S311	1	("2008/0243278").URPN.	USPAT	OR	ON	2014/12/01 10:40
S312	8355	704/500-502.ccls. 700/94.ccls.	US-PGPUB;	OR	ON	2014/12/01 10:40

			USPAT			
S313	58784	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2014/12/01 10:40
S314	3740	S312 and S313	US-PGPUB; USPAT	OR	ON	2014/12/01 10:40
S315	5	("2006/0149402").URPN.	USPAT	OR	ON	2014/12/01 10:42
S316	8	("2006/0009985").URPN.	USPAT	OR	ON	2014/12/01 10:45
S317	8	"Term Removed"	USPAT	OR	ON	2014/12/01 10:48
S318	12	"Term Removed"	US-PGPUB; USPAT	OR	ON	2014/12/01 10:48
S319	50	("20020002039" | "20020003548" | "20020072816" | "20020124097" | "20030020763" | "20030167335" | "20030177889" | "20040010727" | "20040015252" | "20040117044" | "20040131192" | "20040223622" | "20040225389" | "20050002535" |	US-PGPUB; USPAT	OR	ON	2014/12/01 10:51

		"20050021470" | "20050131558" | "20050144284" | "20050289224" | "20060041616" | "20060149402" | "20070142022" | "20070142944" | "20070189544" | "20070288610" | "20080025535" | "20080045140" | "20080077261" | "20080144861" | "20080152165" | "5182552" | "5946343" | "6631410" | "6778869" | "7130608" | "7187947" | "7218708" | "7539551" | "7558224" | "7571014" | "7643894" | "7668990" | "7742832" | "7761176" | "7805210" | "7962482" | "8045952" | "8189824" | "8234395" | "8239559" | "8290603").PN. OR ("8788080").URPN.				
S320	7	("2008/0045140").URPN.	USPAT	OR	ON	2014/12/01 10:57
S321	25	("20030024375" | "20030121401" | "20030150317" | "20040154460" | "20050120865" | "20060179160" | "20070065794" | "20070293250" | "20080045140" | "20080139229" | "20080216125" | "20090168088" | "20090213032" | "20090272251" | "20100033402" | "20100041330" | "7012185" | "7091926" | "7164906" | "7297858" | "7453418" | "7483080" | "7489323" | "8044289" | "RE42565").PN.	US-PGPUB; USPAT	OR	ON	2014/12/01 10:58
S322	41	("2004/0223622").URPN.	USPAT	OR	ON	2014/12/01 11:05
S323	27	("2002/0124097").URPN.	USPAT	OR	ON	2014/12/01 11:10
S324	154812	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR	US-PGPUB; USPAT	OR	ON	2014/12/01 11:12

		H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR				

		H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S325	8355	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2014/12/01 11:12
S326	3356	S325 and S324	US-PGPUB; USPAT	OR	ON	2014/12/01 11:12
S327	240	S326 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2014/12/01 11:12
S328	7	channel near3 map$6 same (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2014/12/01 11:17
S377	10	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	ON	2015/02/06 17:41
S378	17	"Term Removed"	US-PGPUB; USPAT	OR	ON	2015/02/06 17:41
S379	19	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	ON	2015/02/06 17:41
S380	36	S378 S379	US-PGPUB; USPAT	OR	ON	2015/02/06 17:42
S381	23	S380 and request$6	US-PGPUB; USPAT	OR	ON	2015/02/06 17:42
S401	0	reverberation and mccord	US-PGPUB; USPAT	OR	ON	2015/02/07 10:13
S402	11	"Term Removed"	US-PGPUB; USPAT	OR	ON	2015/02/07 10:17
S503	13	("20020098878" | "20050100174" | "20050177256" | "20060179160" | "20060205349" | "20060229752" | "20070223725" | "20080092204" | "20100010651" | "20100052843" | "5406634" | "5519641" | "6889207").PN.	US-PGPUB; USPAT	OR	ON	2015/02/24 16:04
S511	3548	(zone scene config$9) with play$4 and play$5 with different near3 (song media	US-PGPUB;	OR	ON	2015/05/07 10:49

		content) and (sync synchron$8)	USPAT			
S512	3548	S511	US-PGPUB; USPAT	OR	ON	2015/05/07 10:49
S513	115368	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2015/05/07 11:12
S514	1681	second near3 play$5 near4 (media song title) and S513	US-PGPUB; USPAT	OR	ON	2015/05/07 11:12
S515	1681	S514	US-PGPUB; USPAT	OR	ON	2015/05/07 11:12
S516	115368	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR	US-PGPUB; USPAT	OR	ON	2015/05/07 11:13

		H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S517	1681	second near3 play$5 near4 (media song title) and S516	US-PGPUB; USPAT	OR	ON	2015/05/07 11:13
S518	1681	S517	US-PGPUB; USPAT	OR	ON	2015/05/07 11:13
S519	109073	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR	US-PGPUB; USPAT	OR	ON	2015/05/07 11:16

		H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S520	8708	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2015/05/07 11:16
S521	5414	S519 and S520	US-PGPUB; USPAT	OR	ON	2015/05/07 11:16
S522	58	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S521	US-PGPUB; USPAT	OR	ON	2015/05/07 11:16
S523	5119	second near3 play$5 near4 (media song title)	US-PGPUB; USPAT	OR	ON	2015/05/07 11:16
S524	18	S522 and S523	US-PGPUB; USPAT	OR	ON	2015/05/07 11:16
S525	18	S524	US-PGPUB; USPAT	OR	ON	2015/05/07 11:16
S526	3358	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2015/05/07 11:37
S527	268	S526 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2015/05/07 11:37
S528	5	S527 and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2015/05/07 11:37
S529	5	S528	US-PGPUB; USPAT	OR	ON	2015/05/07 11:37
S530	3358	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2015/05/07 11:37

S531	268	S530 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2015/05/07 11:37
S532	268	S531 and S531	US-PGPUB; USPAT	OR	ON	2015/05/07 11:37
S533	1666	active with audio with detect$6	US-PGPUB; USPAT	OR	ON	2015/05/07 11:37
S534	7	S532 and S533	US-PGPUB; USPAT	OR	ON	2015/05/07 11:37
S535	918	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2015/05/07 11:56
S536	918	S535	US-PGPUB; USPAT	OR	ON	2015/05/07 11:56
S537	3	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and "s88"	US-PGPUB; USPAT	OR	ON	2015/05/07 11:58
S538	3	S537	US-PGPUB; USPAT	OR	ON	2015/05/07 11:58
S539	3	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and "s88"	US-PGPUB; USPAT	OR	ON	2015/05/07 12:28
S540	3	S539	US-PGPUB; USPAT	OR	ON	2015/05/07 12:28
S542	3358	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2015/05/07 12:30
S543	268	S542 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2015/05/07 12:30
S544	18034	S542 (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2015/05/07 12:30
S545	109073	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR	US-PGPUB; USPAT	OR	ON	2015/05/07 12:30

		G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S546	8708	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2015/05/07 12:30
S547	5414	S545 and S546	US-PGPUB;	OR	ON	2015/05/07 12:30

			USPAT			
S548	58	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S547	US-PGPUB; USPAT	OR	ON	2015/05/07 12:30
S549	1621	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S545	US-PGPUB; USPAT	OR	ON	2015/05/07 12:31
S550	3694	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S545	US-PGPUB; USPAT	OR	ON	2015/05/07 12:31
S551	15779	(zone scene config$9) with play$4 and S545	US-PGPUB; USPAT	OR	ON	2015/05/07 12:32
S552	1117	S550 and S551	US-PGPUB; USPAT	OR	ON	2015/05/07 12:32
S553	1354	(network$6) near3 (playback adj device $6speaker transducer) and S545	US-PGPUB; USPAT	OR	ON	2015/05/07 12:32
S554	959	(network$6) near3 ($6speaker transducer) and S545	US-PGPUB; USPAT	OR	ON	2015/05/07 12:32
S555	156	S551 and S554	US-PGPUB; USPAT	OR	ON	2015/05/07 12:38
S556	150	S551 and S554 not sonos.as.	US-PGPUB; USPAT	OR	ON	2015/05/07 12:55
S557	5414	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305	US-PGPUB; USPAT	OR	ON	2015/05/07 12:56

		OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.) and S546				
S558	53	S554 and S557	US-PGPUB; USPAT	OR	ON	2015/05/07 12:56
S559	3358	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2015/05/07 13:53
S560	10	("20080159545" | "20090232326" | "20100153097" | "6487296" | "7689305" | "7804972" | "8054987" | "8233635" | "8498726" | "8588432").PN.	US-PGPUB; USPAT	OR	ON	2015/05/07 13:59
S561	5	("20020143547" | "20040147224" | "20040220687" | "7346332" | "7561932").PN.	US-PGPUB; USPAT	OR	ON	2015/05/07 14:00

S563	5371	h04r2227/$3.cpc. h04r2420/$4.cpc. h04s7/30.cpc. h04r2227/$3.cpc. h04r27/$3.cpc. h04r3/12.cpc.	US-PGPUB; USPAT	OR	ON	2015/05/08 16:31
S564	304	S563 and 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2015/05/08 16:31
S565	273	S563 and 700/94.ccls. and (config$8 pair$6 mp4 mpeg4 mpeg$3"4")	US-PGPUB; USPAT	OR	ON	2015/05/08 16:31
S566	273	S563 and 700/94.ccls. and (config$8 pair$6 joint near3 stereo)	US-PGPUB; USPAT	OR	ON	2015/05/08 16:32
S567	156	S563 and 700/94.ccls. and (config$8 pair$6 joint near3 stereo) same $5speaker	US-PGPUB; USPAT	OR	ON	2015/05/08 16:32
S568	100	S563 and 700/94.ccls. and (config$8 pair$6 joint near3 stereo) same $5speaker and network$6	US-PGPUB; USPAT	OR	ON	2015/05/08 16:32
S569	47	S563 and 700/94.ccls. and (config$8 pair$6) and (multi$6channel surround "5.1" multi$6 near2 channel joint near3 stereo) same $5speaker and network$6	US-PGPUB; USPAT	OR	ON	2015/05/08 16:33
S570	29	S563 and 700/94.ccls. and (config$8 pair$6) and (multi$6channel surround "5.1" multi$6 near2 channel joint near3 stereo) same $5speaker and $5speaker same network$6	US-PGPUB; USPAT	OR	ON	2015/05/08 16:33
S584	8	("20010046235" | "20020173273" | "20040098754" | "20050062637" | "20130022221" | "5153579" | "7206967" | "7711774").PN.	US-PGPUB; USPAT	OR	ON	2015/05/12 12:26
S585	8	("20010046235" | "20020173273" | "20040098754" | "20050062637" | "20130022221" | "5153579" | "7206967" | "7711774").PN.	US-PGPUB; USPAT	OR	ON	2015/05/12 12:28
S586	16	("20010042107" | "20020022453" | "20020026442" | "20030073432" | "20030157951" | "20040019497" | "20040024478" | "5602992" | "5923902" | "6404811" | "6522886" | "7130616" | "7136934" | "7143939" | "7236773" | "7657910").PN.	US-PGPUB; USPAT	OR	ON	2015/05/12 12:28
S587	0	makino.in. and mccord.xa.	US-PGPUB; USPAT	OR	ON	2015/05/12 15:20
S588	2	heavy and mccord.xa.	US-PGPUB; USPAT	OR	ON	2015/05/12 15:20
S589	4	makino.in. and mccord.xp.	US-PGPUB; USPAT	OR	ON	2015/05/12 15:20
S590	1	kenwood.as. and mccord.xp.	US-PGPUB; USPAT	OR	ON	2015/05/12 15:21
S591	114425	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR	US-PGPUB; USPAT	OR	ON	2015/10/13 10:46

		G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR					

		H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S592	12432	S591 and ($6zone scene configu$8) same (speaker transducer loud$3speaker)	US-PGPUB; USPAT	OR	ON	2015/10/13 10:46
S593	3745	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2015/10/13 10:57
S594	181474	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023	US-PGPUB; USPAT	OR	ON	2015/10/13 10:58

		OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				

S595	8932	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2015/10/13 10:58
S596	186607	S594 S595	US-PGPUB; USPAT	OR	ON	2015/10/13 10:58
S597	1162	(audes$8 zone with play$4) and play$5 with different near3 (song media content config$6 set$6 align$6) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2015/10/13 10:59
S598	1772	active with audio with detect$6	US-PGPUB; USPAT	OR	ON	2015/10/13 10:59
S599	1662198	(activ$7 audio signal) with detect$6	US-PGPUB; USPAT	OR	ON	2015/10/13 10:59
S600	803	S597 and S599	US-PGPUB; USPAT	OR	ON	2015/10/13 10:59
S601	165	S597 and S599 and S596	US-PGPUB; USPAT	OR	ON	2015/10/13 10:59
S602	976	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2015/10/13 11:18
S603	159	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S596	US-PGPUB; USPAT	OR	ON	2015/10/13 11:18
S604	8	channel near3 map$6 same (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2015/10/13 11:18
S605	4	automat$6 near6 channel near3 map$6 and (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2015/10/13 11:19
S606	68	automat$6 near6 channel near3 (config$8 set$4 map$6) and (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2015/10/13 11:19
S607	1	automat$6 near6 channel near3 (config$8 set$4 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2015/10/13 11:19
S608	13	"Term Removed"	US-PGPUB; USPAT	OR	ON	2015/10/13 11:21
S609	1	"20140286507"	US-PGPUB; USPAT	OR	ON	2015/10/13 11:23
S610	114425	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR	US-PGPUB; USPAT	OR	ON	2015/10/13 11:27

		G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR					

		H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S611	3995	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S610	US-PGPUB; USPAT	OR	ON	2015/10/13 11:27
S612	4352	(digital$3 wireless$3 network$6 smart intellige$6 cognit$6) near3 (playback adj device $6speaker transducer monitor with audio) and S610	US-PGPUB; USPAT	OR	ON	2015/10/13 11:28
S613	3776	S594 and S595	US-PGPUB; USPAT	OR	ON	2015/10/13 11:41
S614	163	S594 and S595 and S612	US-PGPUB; USPAT	OR	ON	2015/10/13 11:41
S615	5373	second near3 play$5 near4 (media song title)	US-PGPUB; USPAT	OR	ON	2015/10/13 12:00
S616	624	(set$3top set adj top) same $6channel near9 (config$8 count$5) and (count$4 surround "5.1" multi$3channel $6channel) same request$6	US-PGPUB; USPAT	OR	ON	2015/10/13 12:00
S617	58	S613 and S615	US-PGPUB; USPAT	OR	ON	2015/10/13 12:01
S618	0	S613 and S616	US-PGPUB; USPAT	OR	ON	2015/10/13 12:01
S619	7	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2015/10/13 12:13
S620	5	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6 and S619	US-PGPUB; USPAT	OR	ON	2015/10/13 12:13
S621	14	"5321636"	US-PGPUB; USPAT	OR	ON	2015/10/13 15:05
S622	1	"20020120925"	US-PGPUB; USPAT	OR	ON	2015/10/14 08:43
S623	1	"20020120925" and search$6	US-PGPUB; USPAT	OR	ON	2015/10/14 08:43
S624	1	"20020120925" and caption$6 same (sync synchron$9)	US-PGPUB; USPAT	OR	ON	2015/10/14 08:45
S625	1	"20020120925" and caption$6 same (sync synchron$9) and (detect$6 search$6 found find$6)	US-PGPUB; USPAT	OR	ON	2015/10/14 08:54
S626	1	"20020120925" and caption$6 same (sync synchron$9) and (detect$6 search$6 found find$6) and record$4	US-PGPUB; USPAT	OR	ON	2015/10/14 08:58

S627	2	"20090173731"	US-PGPUB; USPAT	OR	ON	2015/10/14 12:41
S628	10	"Term Removed"	US-PGPUB; USPAT	OR	ON	2015/10/14 17:58
S629	1	"Term Removed" and 5d	US-PGPUB; USPAT	OR	ON	2015/10/14 17:58
S630	3	disch.in. near3 sascha and 5d	US-PGPUB; USPAT	OR	ON	2015/10/14 17:59
S634	117173	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR	US-PGPUB; USPAT	OR	ON	2016/01/11 14:33

		G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S635	3683	S634 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/01/11 14:33
S636	11	"Term Removed"	US-PGPUB; USPAT	OR	ON	2016/01/11 14:33
S637	1	"20140361867"	US-PGPUB; USPAT	OR	ON	2016/01/11 14:34
S638	42365	((G05B15/02 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/165 OR H03G1/02 OR H03G7/00 OR H04H60/80 OR H04N21/43615 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12).CPC. OR (700/94 715/716 715/727 340/4.41).CCLS.)	US-PGPUB; USPAT	OR	ON	2016/01/11 14:36
S639	35933	S638 and ($6zone scene configu$8)	US-PGPUB; USPAT	OR	ON	2016/01/11 14:36
S640	20704	S638 and ($6zone scene configu$8).clm.	US-PGPUB; USPAT	OR	ON	2016/01/11 14:36
S641	1512	((G05B15/02 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/165 OR H03G1/02 OR H03G7/00 OR H04H60/80 OR H04N21/43615 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12).CPC. and (700/94 715/716 715/727 340/4.41).CCLS.)	US-PGPUB; USPAT	OR	ON	2016/01/11 14:36
S642	837	S641 and ($6zone scene configu$8).clm.	US-PGPUB;	OR	ON	2016/01/11 14:36

			USPAT			
S643	106	S641 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/01/11 14:37
S644	247	S641 and ($6zone scene configu$8) and ((speaker transducer loud$3speaker).ab. (speaker transducer loud$3speaker).clm.)	US-PGPUB; USPAT	OR	ON	2016/01/11 14:37
S645	176	S641 and ($6zone scene configu$8).clm. and ((speaker transducer loud$3speaker).ab. (speaker transducer loud$3speaker).clm.)	US-PGPUB; USPAT	OR	ON	2016/01/11 14:41
S646	1043	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2016/01/11 14:41
S647	1945	S638 and ($6zone scene configu$8).clm. and ((speaker transducer loud$3speaker).ab. (speaker transducer loud$3speaker).clm.)	US-PGPUB; USPAT	OR	ON	2016/01/11 14:41
S648	25	S646 and S647	US-PGPUB; USPAT	OR	ON	2016/01/11 14:41
S649	505	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S638	US-PGPUB; USPAT	OR	ON	2016/01/11 14:45
S650	100	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S641	US-PGPUB; USPAT	OR	ON	2016/01/11 14:45
S652	9	channel near3 map$6 same (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2016/01/11 14:49
S653	2363	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S638	US-PGPUB; USPAT	OR	ON	2016/01/11 14:49
S654	233	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S641	US-PGPUB; USPAT	OR	ON	2016/01/11 14:50
S655	183438	(scene config$6 zone network$4) with play$4	US-PGPUB; USPAT	OR	ON	2016/01/11 14:50
S656	7355	(scene config$6 zone network$4) with play$4 with ($5speak$3 transducer)	US-PGPUB; USPAT	OR	ON	2016/01/11 14:51
S657	155	(scene config$6 zone network$4) with play$4 with ($5speak$3 transducer).clm. and S638	US-PGPUB; USPAT	OR	ON	2016/01/11 14:51
S658	12	sonos.as. and mccord	US-PGPUB; USPAT	OR	ON	2016/01/11 14:52
S673	118242	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR	US-PGPUB; USPAT	OR	ON	2016/02/02 13:51

		G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR					

		G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S674	3856	S673 and ($6zone scene configu$8 set$4up) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/02/02 13:51
S675	3769	S673 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/02/02 13:51
S676	804	S673 and ($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/02/02 13:53
S677	2617	S673 and ($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker).clm.	US-PGPUB; USPAT	OR	ON	2016/02/02 13:54
S678	947	S673 and ($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab.	US-PGPUB; USPAT	OR	ON	2016/02/02 13:54
S679	3186	S673 and ($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).clm.	US-PGPUB; USPAT	OR	ON	2016/02/02 13:54
S680	31661	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).clm.	US-PGPUB; USPAT	OR	ON	2016/02/02 13:54
S681	10647	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab.	US-PGPUB; USPAT	OR	ON	2016/02/02 13:54
S682	779	S673 and ($6zone scene configu$8) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/02/02 14:08
S683	10192	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/02/02 14:08
S684	10083	($6zone scene configu$8) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/02/02 14:08
S685	564	S681 not S684	US-PGPUB; USPAT	OR	ON	2016/02/02 14:09
S686	453	S681 not S684 and display$4	US-PGPUB; USPAT	OR	ON	2016/02/02 14:09
S687	354	S681 not S684 and display$4 same ($6zone scene configu$8 set$4up snap$3shot cad)	US-PGPUB; USPAT	OR	ON	2016/02/02 14:09
S688	156	S681 not S684 and display$4 same ($6zone scene configu$8 set$4up snap$3shot cad) and (sync synchron$9)	US-PGPUB; USPAT	OR	ON	2016/02/02 14:11
S689	158	S681 not S684 and display$4 same	US-	OR	ON	2016/02/02

		($6zone scene configu$8 set$4up snap$3shot cad) and (sync$3 synchron$9)	PGPUB; USPAT			14:11
S690	111	S681 not S684 and display$4 same ($6zone scene configu$8 set$4up snap$3shot cad) and (sync$3 synchron$9) same (speaker transducer loud$5speaker playback near2 device)	US-PGPUB; USPAT	OR	ON	2016/02/02 14:12
S691	31661	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).clm.	US-PGPUB; USPAT	OR	ON	2016/02/02 14:12
S692	1044	(S691 S681) not S684 and display$4 same ($6zone scene configu$8 set$4up snap$3shot cad) and (sync$3 synchron$9) same (speaker transducer loud$5speaker playback near2 device)	US-PGPUB; USPAT	OR	ON	2016/02/02 14:12
S693	29687	($6zone scene configu$8) same (speaker transducer loud$5speaker).clm.	US-PGPUB; USPAT	OR	ON	2016/02/02 14:12
S694	356	(S691 S681) not (S693 S684) and display$4 same ($6zone scene configu$8 set$4up snap$3shot cad) and (sync$3 synchron$9) same (speaker transducer loud$5speaker playback near2 device)	US-PGPUB; USPAT	OR	ON	2016/02/02 14:13
S695	226	(S691 S681) not (S693 S684) and display$4 with ($6zone scene configu$8 set$4up snap$3shot cad) and (sync$3 synchron$9) with (speaker transducer loud$5speaker playback near2 device)	US-PGPUB; USPAT	OR	ON	2016/02/02 14:13
S696	0	("2015/0373395").URPN.	USPAT	OR	ON	2016/02/02 14:27
S697	0	("2015/0095323").URPN.	USPAT	OR	ON	2016/02/02 14:27
S698	125401	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307	US-PGPUB; USPAT	OR	ON	2016/02/02 14:27

		OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC. (700/94 381/104-109 715/716,727).ccls.)				
S699	156	S694 and S698	US-PGPUB; USPAT	OR	ON	2016/02/02 14:28
S700	2111	second near3 play$5 near4 (media song title) and S698	US-PGPUB; USPAT	OR	ON	2016/02/02 14:38
S701	695	second near3 (speaker transducer loud$5speaker playback near2 device) same (media song title) and S698	US-PGPUB; USPAT	OR	ON	2016/02/02 14:39
S702	49	S694 and S701	US-	OR	ON	2016/02/02

			PGPUB; USPAT			14:39
S703	1305	(additional second$4 plural$6) near3 (speaker transducer loud$5speaker playback near2 device) same (media song title) and S698	US-PGPUB; USPAT	OR	ON	2016/02/02 14:39
S704	695	S703 and S701	US-PGPUB; USPAT	OR	ON	2016/02/02 14:40
S705	2	("20090062943" "20110276333").pn.	US-PGPUB; USPAT	OR	ON	2016/02/03 10:50
S717	90	("20020002039" | "20020072816" | "20020124097" | "20040117044" | "20050131558" | "20050254505" | "20070288610" | "20080066094" | "20080077261" | "20080144861" | "6587127" | "6604023" | "7742832" | "8234395" | "20020026442" | "6757517" | "7130616" | "8103009" | "20050021470" | "20060041616" | "20080025535" | "20080045140" | "6778869" | "7130608" | "7626952" | "8189824" | "6404811" | "20130103873" | "7558224" | "7761176" | "7962482" | "8700730" | "20030157951" | "7657910" | "20030167335" | "20060149402" | "20080066120" | "20090228919" | "6631410" | "7187947" | "7817960" | "5923902" | "7483538" | "8423893" | "20030020763" | "20030177889" | "20040223622" | "20050002535" | "20050289224" | "20070142022" | "5946343" | "7668990" | "20040024478" | "6256554" | "7143939" | "7236773" | "20020003548" | "20030198257" | "20040010727" | "20050289244" | "5182552" | "7218708" | "7805210" | "7849181" | "8045952" | "6522886" | "8014423" | "20140093085" | "20040225389" | "20070142944" | "20080152165" | "20080162668" | "20010042107" | "7853341" | "8762565" | "8965544" | "20040015252" | "20040131192" | "20050144284" | "20070189544" | "20090097672" | "7302468" | "7539551" | "7571014" | "7643894" | "8239559" | "8290603" | "8788080" | "20020022453" | "6611537").PN.	US-PGPUB; USPAT	OR	ON	2016/02/04 13:19
S718	125524	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR	US-PGPUB; USPAT	OR	ON	2016/02/04 13:19

		G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR				

		H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC. (700/94 381/104-109 715/716,727).ccls.)				
S719	1305	(additional second$4 plural$6) near3 (speaker transducer loud$5speaker playback near2 device) same (media song title) and S718	US-PGPUB; USPAT	OR	ON	2016/02/04 13:19
S720	0	"2014074089"	US-PGPUB; USPAT	OR	ON	2016/02/04 13:25
S776	15	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	ON	2016/03/08 12:35
S788	2	"Term Removed"	US-PGPUB	OR	ON	2016/03/10 10:41
S789	2	"Term Removed"	US-PGPUB	OR	ON	2016/03/10 10:41
S790	95	("5668884" | "6611537" | "7571014" | "7657910" | "20120051558" | "20140016784" | "20140016802" | "20150201274" | "7490044" | "8063698" | "8160281" | "8306235" | "8831761" | "8977974" | "6522886" | "7792311" | "8843224" | "20140016786" | "20140226823" | "20140294200" | "7519188" | "8331585" | "8879761" | "8914559" | "5923902" | "6404811" | "6778869" | "7643894" | "8234395" | "7689305" | "20130259254" | "7251533" | "7383036" | "7607091" | "5218710" | "7483538" | "20110170710" | "20130010970" | "20140219456" | "7072477" | "8175292" | "8243961" | "8984442" | "5553147" | "6704421" | "6757517" | "8014423" | "20140355768" | "5910991" | "7630500" | "5673323" | "7171010" | "8045952" | "8103009" | "20140023196" | "20140112481" | "20140355794" | "20150146886" | "4995778" | "7394480" | "8229125" | "8452020" | "8620006" | "8934655" | "6256554" | "6631410" | "6916980" | "7130608" | "7130616" | "20070142944" | "7853341" | "20120263325" | "20130028443" | "20140233755" | "8233632" | "8238578" | "8265310" | "8290185" | "8325935" | "8391501" | "8577045" | "5946343" | "6931134" | "7143939" | "7236773" | "20100142735" | "20120127831" | "20150063610" | "20150281866" | "8139774" | "8600075" | "8855319" | "8934647" | "8965546" | "9020153").PN.	US-PGPUB; USPAT	OR	ON	2016/03/10 10:41
S791	0	S789 and S790	US-PGPUB; USPAT	OR	ON	2016/03/10 10:42
S793	10	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	ON	2016/03/10 13:49
S820	121310	((G10L19/008 OR G10L19/167 OR	US-	OR	ON	2016/05/27

		G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR	PGPUB; USPAT			13:27

		H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S821	3989	S820 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/05/27 13:27
S822	4	automat$6 near6 channel near3 map$6 and (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2016/05/27 13:27
S823	121310	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR	US-PGPUB; USPAT	OR	ON	2016/05/27 13:28

		G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S824	852	S823 and ($6zone scene configu$8) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/05/27 13:28
S825	10655	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/05/27 13:28
S826	10543	($6zone scene configu$8) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/05/27 13:28
S827	10655	S824 S825 S826	US-PGPUB; USPAT	OR	ON	2016/05/27 13:28
S828	4189	plural$4 near3 play$5 near4 (media song title)	US-PGPUB; USPAT	OR	ON	2016/05/27 13:28
S829	1150	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2016/05/27 13:29
S830	34399	detect$6 near3 signal and automat$8 near3 switch$6	US-PGPUB; USPAT	OR	ON	2016/05/27 13:29
S831	5915	second near3 play$5 near4 (media song title)	US-PGPUB; USPAT	OR	ON	2016/05/27 13:29
S832	1111	zone with play$4 and play$5 with	US-	OR	ON	2016/05/27

		different near3 (song media content) and (sync synchron$8) AND GROUP$5	PGPUB; USPAT			13:29
S833	1071	S832 and (stereo mono monaural left right)	US-PGPUB; USPAT	OR	ON	2016/05/27 13:29
S834	61513	((G06F3/165 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR H03G3/20 OR H03G1/02 OR H03G7/00 OR H04R2227/005 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04R2420/01 OR H04R2430/01 OR H04S7/30 OR H04H60/80 OR H04N21/43615).CPC. OR (381/17 OR 709/221 OR 709/230 OR 709/231 OR 715/716 OR 715/727 OR 715/734 OR 715/735).CCLS.)	US-PGPUB; USPAT	OR	ON	2016/05/27 13:30
S835	806	S827 AND S834	US-PGPUB; USPAT	OR	ON	2016/05/27 13:30
S836	14	S835 AND (S828 S829)	US-PGPUB; USPAT	OR	ON	2016/05/27 13:30
S837	121310	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR	US-PGPUB; USPAT	OR	ON	2016/05/27 15:01

		G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S838	852	S837 and ($6zone scene configu$8) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/05/27 15:01
S839	10655	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/05/27 15:01
S840	10543	($6zone scene configu$8) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/05/27 15:01
S841	10655	S838 S839 S840	US-PGPUB; USPAT	OR	ON	2016/05/27 15:01
S842	10655	S841	US-PGPUB; USPAT	OR	ON	2016/05/27 15:01
S843	4189	plural$4 near3 play$5 near4 (media song title)	US-PGPUB; USPAT	OR	ON	2016/05/27 15:02
S844	4189	S843	US-PGPUB; USPAT	OR	ON	2016/05/27 15:02
S904	208455	((H04S7/30 OR H04S2400/11 OR	US-	OR	ON	2016/08/10

		H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR	PGPUB; USPAT			11:13

		G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S905	9205	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2016/08/10 11:13
S906	3967	S905 and S904	US-PGPUB; USPAT	OR	ON	2016/08/10 11:13
S907	69	S906 and ($6zone scene configu$8).ab. and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/08/10 11:13
S908	131142	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR	US-PGPUB; USPAT	OR	ON	2016/08/10 11:53

		G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR				

		H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC. (700/94 381/104-109 715/716,727).ccls.)				
S909	804	second near3 (speaker transducer loud$5speaker playback near2 device) same (media song title) and S908	US-PGPUB; USPAT	OR	ON	2016/08/10 11:53
S910	4514	second near3 (speaker transducer loud$5speaker playback near2 device) same (media song title)	US-PGPUB; USPAT	OR	ON	2016/08/10 11:53
S911	2527	second near3 (speaker transducer loud$5speaker playback near2 device) same (media song title) and (stereo multi$6channel multi$4 adj channel pair$4)	US-PGPUB; USPAT	OR	ON	2016/08/10 11:54
S912	5835	second near3 (speaker transducer loud$5speaker playback near2 device) same (stereo multi$6channel multi$4 adj channel pair$4)	US-PGPUB; USPAT	OR	ON	2016/08/10 11:54
S913	15686	(plural$6 second multi$4) near3 (speaker transducer loud$5speaker playback near2 device) same (stereo multi$6channel multi$4 adj channel pair$4 "5.1" surround$4)	US-PGPUB; USPAT	OR	ON	2016/08/10 12:26
S914	123888	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR	US-PGPUB; USPAT	OR	ON	2016/08/10 12:41

		G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S915	9205	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2016/08/10 12:41
S916	5859	S914 and S915	US-PGPUB; USPAT	OR	ON	2016/08/10 12:41
S917	48	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S916	US-PGPUB; USPAT	OR	ON	2016/08/10 12:41
S918	4308	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2016/08/10 12:41
S919	243	S913 and S918	US-PGPUB; USPAT	OR	ON	2016/08/10 12:54
S920	288	channel near3 map$6 and (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2016/08/10 13:26

S921	15686	(plural$6 second multi$4) near3 (speaker transducer loud$5speaker playback near2 device) same (stereo multi$6channel multi$4 adj channel pair$4 "5.1" surround$4)	US-PGPUB; USPAT	OR	ON	2016/08/10 13:26
S922	4308	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2016/08/10 13:26
S923	243	S921 and S922	US-PGPUB; USPAT	OR	ON	2016/08/10 13:26
S924	1737	((G05B15/02 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/165 OR H03G1/02 OR H03G7/00 OR H04H60/80 OR H04N21/43615 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12).CPC. and (700/94 715/716 715/727 340/4.41).CCLS.)	US-PGPUB; USPAT	OR	ON	2016/08/10 13:44
S925	205	S924 and ($6zone scene configu$8).clm. and ((speaker transducer loud$3speaker).ab. (speaker transducer loud$3speaker).clm.)	US-PGPUB; USPAT	OR	ON	2016/08/10 13:44
S926	19130	($6zone scene configu$8).ab. and ($6zone scene configu$8).clm. and ((speaker transducer loud$3speaker).ab. (speaker transducer loud$3speaker).clm.)	US-PGPUB; USPAT	OR	ON	2016/08/10 13:45
S927	25946	($6zone scene configu$8 stereo pair$4).ab. and ($6zone scene configu$8 stereo pair$4).clm. and ((speaker transducer loud$3speaker).ab. (speaker transducer loud$3speaker).clm.)	US-PGPUB; USPAT	OR	ON	2016/08/10 13:45
S928	3394	($6zone scene configu$8 stereo pair$4).ab. and ($6zone scene configu$8 stereo pair$4).clm. and ((speaker transducer loud$3speaker).ab. (speaker transducer loud$3speaker).clm.) and S921	US-PGPUB; USPAT	OR	ON	2016/08/10 13:46
S929	1577	($6zone scene configu$8 (multi$channel multi$4 adj channel stereo) near3 (config$6 pair$4)).ab. and ($6zone scene configu$8 (multi$channel multi$4 adj channel stereo) near3 (config$6 pair$4)).clm. and ((speaker transducer loud$3speaker).ab. (speaker transducer loud$3speaker).clm.) and S921	US-PGPUB; USPAT	OR	ON	2016/08/10 13:47
S930	2	"20110043617"	US-PGPUB; USPAT	OR	ON	2016/08/10 14:06
S931	4	"20150185964" "20060002572"	US-PGPUB; USPAT	OR	ON	2016/08/10 14:07
S932	11	"Term Removed" and between	US-PGPUB; USPAT	OR	ON	2016/08/10 14:14
S933	1	("2015/0185964").URPN.	USPAT	OR	ON	2016/08/10 14:31

S934	24	("20030035550" | "20030041332" | "20050166258" | "20070106941" | "20070143820" | "20070189544" | "20090135022" | "20090175599" | "20090265172" | "20110029326" | "20110157046" | "20120060116" | "20130117248" | "20140108010" | "20140226953" | "20140255003" | "20150163558" | "20150185964" | "5371551" | "6496205" | "6529586" | "7293279" | "8244105" | "9055271").PN. OR ("9274673").URPN.	US-PGPUB; USPAT	OR	ON	2016/08/10 14:32
S935	314	sonos.as.	US-PGPUB; USPAT	OR	ON	2016/08/10 14:49
S936	12	sonos.as. and (S920 S925 S929)	US-PGPUB; USPAT	OR	ON	2016/08/10 14:50
S937	166	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and sonos.as.	US-PGPUB; USPAT	OR	ON	2016/08/10 15:05
S938	1195	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2016/08/10 15:05
S939	14180	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2016/08/10 15:05
S940	176	S938 and S939	US-PGPUB; USPAT	OR	ON	2016/08/10 15:05
S941	6090	second near3 play$5 near4 (media song title)	US-PGPUB; USPAT	OR	ON	2016/08/10 15:19
S942	81	second near3 play$5 near4 (media song title) and sonos.as.	US-PGPUB; USPAT	OR	ON	2016/08/10 15:19
S943	466330	(G06F3/165 OR G06F3/0482 OR G06F3/16 OR G06F3/0484 OR G06F17/30058 OR G06F3/04847 OR G06F17/3074 OR G06F3/04842 OR G06F17/00 OR G06F17/30749 OR G06F1/00 OR G06F1/12 OR G06F3/048 OR G06F3/04817 OR G06F3/167 OR G06F17/30772 OR G06F3/0486 OR G06F17/30053 OR G06F3/162 OR G06F9/5038 OR G06F17/30864 OR G06F1/26 OR G06F1/3203 OR G06F1/3206 OR G06F3/0488 OR G06F3/04883 OR G06F17/30035 OR G06F17/30038 OR G06F17/30504 OR G06F17/3053 OR G06F17/30743 OR G06F17/30761 OR G06F17/30867 OR G06F17/30876 OR G06F21/10 OR G06F21/6218 OR G06F3/017 OR G06F3/0481 OR G06F3/04886 OR H04R2227/005 OR H04R27/00 OR H04R2227/003 OR H04R3/12 OR H04R2420/07 OR H04R3/04 OR H04R5/04 OR H04R11/00 OR H04R2430/03 OR H04R3/14 OR H04R29/00 OR H04R29/007 OR	US-PGPUB; USPAT	OR	ON	2016/08/10 15:20

		H04R2420/03 OR H04R2430/01 OR H04R2499/11 OR H04R29/001 OR H04R29/008 OR H04R3/00 OR H04N21/43615 OR H04N21/8113 OR H04N21/4307 OR H04N5/04 OR H04N9/7904 OR H04N21/26258 OR H04N21/41407 OR H04N21/4825 OR H04N21/4396 OR H04N21/458 OR H04N21/47217 OR H04N21/8106 OR H04N1/00 OR H04N21/25816 OR H04N21/4126 OR H04N21/42684 OR H04N21/44227 OR H04N21/6125 OR H04N21/6175 OR H04N21/6402 OR H04N21/6405 OR H04N21/6408 OR H04N21/00 OR H04N21/42218 OR H04N21/4222 OR H04N21/4227 OR H04N21/4302 OR H04N21/4316 OR H04N21/436 OR H04N21/43637 OR H04N21/439 OR H04N21/44222 OR H04N21/4425 OR H04N21/4524 OR H04N21/4725 OR H04N21/482 OR H04N21/4826 OR H04N21/6131 OR H04N21/6181 OR H04N21/6587 OR H04L65/4084 OR H04L65/60 OR H04L67/10 OR H04L65/80 OR H04L67/1095 OR H04L67/12 OR H04L12/2854 OR H04L65/4076 OR H04L65/4092 OR H04L65/601 OR H04L67/26 OR H04L69/28 OR H04L2012/2849 OR H04L12/2812 OR H04L12/282 OR H04L12/2838 OR H04L63/08 OR H04L65/602 OR H04L12/12 OR H04L12/18 OR H04L12/2602 OR H04L12/28 OR H04L12/462 OR H04L1/0001 OR H04L2012/2841 OR H04L29/06027 OR H04L45/16 OR H04L45/22 OR H04L45/745 OR H04L61/6022 OR H04L63/105 OR H04L65/1003 OR H04L65/4023 OR H04L65/608 OR H04L12/2803 OR H04L12/2809 OR H04L12/2814 OR H04L12/2829 OR H04L12/2834 OR H04L12/4625 OR H04L12/6418 OR H04L63/083 OR H04L63/101 OR H04L63/108 OR H04L65/00 OR H04L65/1026 OR H04L65/1069 OR H04L65/4007 OR H04L65/403 OR H04L65/4069 OR H04L65/604 OR H04L67/02 OR H04L67/125 OR H04L67/142 OR H04L67/306 OR H04L67/325 OR H04L7/00 OR H03G3/20 OR H03G3/00 OR H03G3/001 OR H03G3/02 OR H03G3/04 OR H03G3/348 OR H03G5/165 OR H03G7/002 OR H03G3/3089 OR H03G3/32 OR H03G5/005 OR G08C17/02 OR G08C23/04 OR G08C2201/40 OR G11B2020/10592 OR G11B20/10527 OR G11B27/105 OR G11B19/025 OR G11B2020/10972 OR G11B27/002 OR G11B20/10 OR G11B27/10 OR G11B19/027 OR G11B23/049 OR G11B27/00 OR G11B27/102 OR				

		G11B27/34 OR H04H20/103 OR H04H20/26 OR H04H2201/20 OR H04H60/80 OR H04J3/0664 OR H04W56/0015 OR H04W84/20 OR H04W4/043 OR H04W40/02 OR H04W40/12 OR H04W4/003 OR H04W52/0212 OR H04W52/0219 OR H04W52/0251 OR H04W52/46 OR H04W84/18 OR H04W4/00 OR H04W4/008 OR H04W4/02 OR H04W4/021 OR H04W76/02 OR H04W76/028 OR H04W76/064 OR H04W84/12 OR H04B17/318 OR H04B17/00 OR H04S2400/03 OR H04S7/301 OR H04S3/008 OR H04S7/00 OR H04S7/302 OR H04S7/305 OR Y02B60/32 OR Y02B60/34 OR Y02B60/35 OR Y02B60/50 OR G01S3/80 OR G06Q20/20 OR G06Q20/209 OR G06Q20/322 OR G06Q50/01 OR G07G1/0009).CPC.				
S944	19755	(700/94 OR 715/716 OR 381/109 OR 381/56 OR 381/58 OR 381/80 OR 705/16 OR 725/25 OR 726/28).CCLS.	US-PGPUB; USPAT	OR	ON	2016/08/10 15:20
S945	11442	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab.	US-PGPUB; USPAT	OR	ON	2016/08/10 15:21
S946	10821	($6zone scene configu$8) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2016/08/10 15:21
S947	34398	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).clm.	US-PGPUB; USPAT	OR	ON	2016/08/10 15:21
S948	32223	($6zone scene configu$8) same (speaker transducer loud$5speaker).clm.	US-PGPUB; USPAT	OR	ON	2016/08/10 15:21
S949	434	(S947 S945) not (S948 S946) and display$4 same ($6zone scene configu$8 set$4up snap$3shot cad) and (sync$3 synchron$9) same (speaker transducer loud$5speaker playback near2 device)	US-PGPUB; USPAT	OR	ON	2016/08/10 15:21
S950	357	(S943 S944) and S949	US-PGPUB; USPAT	OR	ON	2016/08/10 15:35
S951	33	(S943 S944) and S949 and ((stereo surround$4 "5.1" sub$3woof$4 pair$4).clm. (stereo surround$4 "5.1" sub$3woof$4 pair$4).ab.)	US-PGPUB; USPAT	OR	ON	2016/08/10 15:43
S1011	21	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2017/01/03 10:42
S1012	52	("7324857" "7263110" "20020124097" "20050131558" "20030014486" "20040223622" "7295548" "6684060" "20040014426" "20070087686"	US-PGPUB; USPAT	OR	ON	2017/01/03 10:42

		"7987294" "6487296" "20040037433" "5361381" "7853341" "7653344" "7324857" "7263110" "20020124097" "20050131558" "20040223622" "7295548" "6684060" "7630501" "8600084" "8942395" "7987294" "7688306" "8150079" "8565455" "8374595" "6901439" "20030212802" "7305694" "20040168081" "7356011" "727754720030014486" "20040223622" "7295548" "6684060" "20070087686" "20040014426" "6487296" "20040037433" "5361381" "7853341" "8653344" "7987294" "4824059" "7095528" "5818948" "5151922" "6919771" "20010043456" "4731814" "5774016" "8654995" "20040185773" "7308188" "6535121" "5440644" "7324857" "7987294" "20020124097" "20050131558" "20030014484" "7627825" "6469633" "5761320" "6469633" "6826283" "5182552" "20020072816" "20030103088" "7197148" "5182552" "6469633" "20020072816" "6931557").pn.				
S1013	0	S1011 and S1012	US-PGPUB; USPAT	OR	ON	2017/01/03 10:42
S1014	3841	agere.as.	US-PGPUB; USPAT	OR	ON	2017/01/03 11:03
S1015	463	agere.as. and audio	US-PGPUB; USPAT	OR	ON	2017/01/03 11:03
S1016	1	"20070087686"	US-PGPUB; USPAT	OR	ON	2017/01/03 11:12
S1017	13	"Term Removed"	US-PGPUB; USPAT	OR	ON	2017/01/03 12:10
S1018	583	intensity and (path ray) near3 trac$4 and hash$4	US-PGPUB; USPAT	OR	ON	2017/01/03 12:11
S1019	283	intensity and (path ray) near3 trac$4 and hash$4 and delay$6	US-PGPUB; USPAT	OR	ON	2017/01/03 12:11
S1020	255	intensity and (path ray) near3 trac$4 and hash$4 and delay$6 and graph$4	US-PGPUB; USPAT	OR	ON	2017/01/03 12:11
S1021	23	intensity and (path ray) near3 trac$4 and hash$4 and delay$6 and graph$4 and mesh$4	US-PGPUB; USPAT	OR	ON	2017/01/03 12:12
S1022	0	("2013/0002672").URPN.	USPAT	OR	ON	2017/01/03 12:14
S1023	10984	voxel$6	USPAT	OR	ON	2017/01/03 12:14
S1024	2723	voxel$6.clm.	USPAT	OR	ON	2017/01/03 12:15
S1025	360	voxel$6.clm. with surfac$4	USPAT	OR	ON	2017/01/03

						12:15
S1029	226745	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR	US-PGPUB; USPAT	OR	ON	2017/02/17 11:07

		G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1030	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/02/17 11:07
S1031	4049	S1030 and S1029	US-PGPUB; USPAT	OR	ON	2017/02/17 11:07
S1032	276	S1031 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2017/02/17 11:07
S1033	71	S1031 and ($6zone scene configu$8).ab. and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2017/02/17 11:07
S1034	276	S1032 S1033	US-PGPUB; USPAT	OR	ON	2017/02/17 11:07

S1035	4049	S1031	US-PGPUB; USPAT	OR	ON	2017/02/17 11:08
S1036	565	S1031 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).clm.	US-PGPUB; USPAT	OR	ON	2017/02/17 11:08
S1037	603	S1032 S1036	US-PGPUB; USPAT	OR	ON	2017/02/17 11:08
S1038	11621	($6zone scene configu$8).ab. and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2017/02/17 11:31
S1039	1325	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:31
S1040	12924	S1038 S1039	US-PGPUB; USPAT	OR	ON	2017/02/17 11:31
S1041	75707	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:40
S1042	4349	S1030 and S1041	US-PGPUB;	OR	ON	2017/02/17 11:40

			USPAT			
S1043	131115	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR	US-PGPUB; USPAT	OR	ON	2017/02/17 11:40

		H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1044	131115	S1043	US-PGPUB; USPAT	OR	ON	2017/02/17 11:40
S1045	138609	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:40
S1046	138609	S1045	US-PGPUB; USPAT	OR	ON	2017/02/17 11:40
S1047	138609	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR	US-PGPUB; USPAT	OR	ON	2017/02/17 11:41

		G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S1048	131115	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR	US-PGPUB; USPAT	OR	ON	2017/02/17 11:41

		G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1049	226745	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR	US-PGPUB; USPAT	OR	ON	2017/02/17 11:41

		H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR					

		G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1050	365944	S1047 S1048 S1049	US-PGPUB; USPAT	OR	ON	2017/02/17 11:41
S1051	131115	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR	US-PGPUB; USPAT	OR	ON	2017/02/17 11:41

		G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1052	131115	S1051	US-PGPUB; USPAT	OR	ON	2017/02/17 11:41
S1053	100965	S1051 and ($6zone scene configu$8)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:41
S1054	100965	S1053	US-PGPUB; USPAT	OR	ON	2017/02/17 11:41
S1055	226745	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42

		H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR				

		H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1056	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42
S1057	231903	S1056 S1055	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42
S1058	4213	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42
S1059	4213	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42
S1060	4213	S1058 S1059	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42
S1061	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42
S1062	75707	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42

		H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S1063	80565	S1061 S1062	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42
S1064	131115	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42

		G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1065	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42
S1066	134409	S1064 S1065	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42
S1067	226745	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42

		H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR				

		H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1068	226745	S1067	US-PGPUB; USPAT	OR	ON	2017/02/17 11:42
S1069	385172	S1041 S1043 S1045 S1047 S1048 S1049 S1051 S1055 S1056 S1058 S1061 S1062 S1064 S1065 S1067	US-PGPUB; USPAT	OR	ON	2017/02/17 11:45
S1070	304007	S1069 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:45
S1071	58345	((G05B15/02 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/165 OR H03G1/02 OR H03G7/00 OR H04H60/80 OR H04N21/43615 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12).CPC. OR (700/94 715/716 715/727 340/4.41).CCLS.)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:47
S1072	3397	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S1071	US-PGPUB; USPAT	OR	ON	2017/02/17 11:47
S1073	13696	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S1069	US-PGPUB; USPAT	OR	ON	2017/02/17 11:48
S1074	11715	S1070 and S1073	US-PGPUB; USPAT	OR	ON	2017/02/17 11:49
S1075	4245	S1074 and (surround multi$channel multipl$5 near2 chanel "5.1" mpeg$4 aes$3)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:50
S1076	3345	S1074 and (surround multi$channel multipl$5 near2 chanel "5.1" mpeg$4 aes$3) and wireless$4	US-PGPUB; USPAT	OR	ON	2017/02/17 11:51
S1077	2466	S1074 and (surround multi$channel	US-	OR	ON	2017/02/17

		multipl$5 near2 channel "5.1" mpeg$4 aes$3) and wireless$4 and (stereo pair)	PGPUB; USPAT			11:52
S1078	3193	S1074 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3) and wireless$4 and (stereo pair group$4)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:53
S1079	1829	S1074 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3) and wireless$4 and (stereo pair group$4) and pair$4	US-PGPUB; USPAT	OR	ON	2017/02/17 11:55
S1080	572	S1074 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3) and wireless$4 and (stereo pair group$4).clm. and pair$4	US-PGPUB; USPAT	OR	ON	2017/02/17 11:56
S1081	196	S1074 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3) and wireless$4 and (stereo pair group$4).ab. and pair$4	US-PGPUB; USPAT	OR	ON	2017/02/17 11:56
S1082	4	("8588949" "8938312" "9202509" "9219959").pn.	US-PGPUB; USPAT	OR	ON	2017/02/17 11:56
S1083	861352	((G06F3/165 OR G06F3/04842 OR G06F3/162 OR G06F17/30026 OR G06F17/30283 OR G06F3/0482 OR G06F3/04847 OR G06F3/04855 OR H04R2227/005 OR H04R27/00 OR H04R2227/003 OR H04R2420/01 OR H04R2420/07 OR H04R2430/01 OR H04R29/008 OR H04R3/00 OR H04R3/12 OR H04R5/04 OR H04S7/30 OR H04S2400/01 OR H04S2400/13 OR H04S3/008 OR H04S7/00 OR H04S7/308 OR G05B15/02 OR G11B19/02 OR G11B27/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/20 OR H03G3/3026 OR H04N21/4307 OR H04N21/43615 OR H04N21/43637 OR H04N21/4852 OR H04N21/8106).CPC. OR (1/1 OR 700/94 OR 381/104 OR 381/105 OR 381/106 OR 381/107 OR 381/108 OR 381/109 OR 715/716).CCLS.)	US-PGPUB; USPAT	OR	ON	2017/02/17 11:57
S1084	1038	S1079 and S1083	US-PGPUB; USPAT	OR	ON	2017/02/17 11:58
S1085	354	(S1080 S1081) and S1083	US-PGPUB; USPAT	OR	ON	2017/02/17 11:58
S1086	256	("20130243199" | "20010043456" | "20010050991" | "20020072816" | "20020072817" | "20020078293" | "20020101357" | "20020124097" | "20020131761" | "20020137505" | "20020165921" | "20030014486" | "20030043856" | "20030063755" | "20030103088" | "20030167335" | "20030179780" | "20030185400" | "20030198257" | "20030212802" | "20030219007" | "20030231208" | "20040001591" | "20040014426" | "20040019807" | "20040037433" |	US-PGPUB; USPAT	OR	ON	2017/02/17 12:04

		"20040042629"	"20040059842"					
		"20040117462"	"20040168081"					
		"20040171346"	"20040177167"					
		"20040183827"	"20040185773"					
		"20040203590"	"20040223622"					
		"20040249490"	"20040253969"					
		"20050060435"	"20050131558"					
		"20050154766"	"20050160270"					
		"20050197725"	"20060072489"					
		"20060173844"	"20060222186"					
		"20060227985"	"20060259649"					
		"20060270395"	"20070087686"					
		"20080075295"	"20080205070"					
		"20080303947"	"20090011798"					
		"20090070434"	"20090124289"					
		"20100087089"	"20110001632"					
		"20110316768"	"20150365987"					
		"3956591"	"4105974"	"4306114"				
		"4509211"	"4530091"	"4701629"				
		"4731814"	"4824059"	"4845751"				
		"4994908"	"5086385"	"5151922"				
		"5182552"	"5237327"	"5272757"				
		"5361381"	"5372441"	"5406634"				
		"5430485"	"5440644"	"5457448"				
		"5481251"	"5515345"	"5553314"				
		"5625350"	"5640388"	"5661665"				
		"5740235"	"5742623"	"5761320"				
		"5774016"	"5790543"	"5812201"				
		"5818948"	"5832024"	"5848152"				
		"5852722"	"5875233"	"5905768"				
		"5946343"	"5956025"	"5960006"				
		"5984512"	"5987611"	"5990884"				
		"5991307"	"5999906"	"6018376"				
		"6029196"	"6038614"	"6046550"				
		"6061457"	"6081266"	"6088063"				
		"6101195"	"6127941"	"6148205"				
		"6169725"	"6181383"	"6195435"				
		"6212282"	"6246701"	"6269406"				
		"6301012"	"6310652"	"6313879"				
		"6321252"	"6353172"	"6356871"				
		"6418150"	"6442443"	"6449642"				
		"6456783"	"6463474"	"6466832"				
		"6469633"	"6487296"	"6493832"				
		"6535121"	"6636269"	"6653899"				
		"6654720"	"6654956"	"6684060"				
		"6704421"	"6741961"	"6778073"				
		"6816510"	"6826283"	"6859460"				
		"6859538"	"6873862"	"6901439"				
		"6915347"	"6919771"	"6931557"				
		"6937988"	"6987767"	"7046677"				
		"7092528"	"7092694"	"7096169"				
		"7120168"	"7130316"	"7136934"				
		"7139981"	"7146260"	"7161939"				
		"7197148"	"7206618"	"7260616"				
		"7263110"	"7277547"	"7289631"				
		"7295548"	"7305694"	"7308188"				
		"7324857"	"7356011"	"7366206"				
		"7428310"	"7430181"	"7457948"				
		"7472058"	"7492912"	"7505889"				
		"7548744"	"7548851"	"7558224"				
		"7558635"	"7627825"	"7630501"				
		"7653344"	"7675943"	"7676044"				
		"7676142"	"7688306"	"7721032"				
		"7746906"	"7761176"	"7831054"				

		"7853341" | "7882234" | "7933418" | "7945636" | "7945708" | "7966388" | "7987294" | "7995732" | "8041062" | "8050203" | "8150079" | "8170222" | "8233029" | "8311226" | "8374595" | "8411883" | "8442239" | "8477958" | "8565455" | "8600084" | "8654995" | "8861739" | "8942395" | "D260764" | "D279779" | "D293671" | "D301037" | "D304443" | "D313023" | "D313398" | "D313600" | "D320598" | "D322609" | "D326450" | "D327060" | "D331388" | "D333135" | "D350531" | "D350962" | "D354059" | "D354751" | "D356093" | "D356312" | "D357024" | "D362446" | "D363933" | "D364877" | "D364878" | "D365102" | "D366044" | "D372716" | "D377651" | "D379816" | "D380752" | "D382271").PN.				
S1087	3	S1086 and moore.in.	US-PGPUB; USPAT	OR	ON	2017/02/17 12:04
S1088	8	("20040014426" "20070087686" "7987294" "6487296" "20040037433" "5361381" "7853341" "7653344").pn.	US-PGPUB; USPAT	OR	ON	2017/02/17 12:05
S1089	10	"Term Removed"	US-PGPUB; USPAT	OR	ON	2017/02/17 12:18
S1092	262	("4712105" | "7710941" | "20120051567" | "20010043456" | "20010050991" | "20020072816" | "20020072817" | "20020078293" | "20020101357" | "20020124097" | "20020131761" | "20020137505" | "20020165921" | "20030014486" | "20030043856" | "20030063755" | "20030103088" | "20030167335" | "20030179780" | "20030185400" | "20030198257" | "20030212802" | "20030219007" | "20030231208" | "20040001591" | "20040014426" | "20040019807" | "20040037433" | "20040042629" | "20040059842" | "20040117462" | "20040168081" | "20040171346" | "20040177167" | "20040183827" | "20040185773" | "20040203590" | "20040223622" | "20040249490" | "20040253969" | "20050060435" | "20050131558" | "20050154766" | "20050160270" | "20050197725" | "20060072489" | "3956591" | "4105974" | "4306114" | "4509211" | "4530091" | "4701629" | "4731814" | "4824059" | "4845751" | "4994908" | "5086385" | "5151922" | "5182552" | "5237327" | "5272757" | "5361381" | "5372441" | "5406634" | "5430485" | "5440644" | "5457448" | "5481251" | "5515345" | "5553314" | "5625350" | "5640388" | "5661665" | "5740235" | "5742623" | "5761320" | "5774016" | "5790543" | "5812201" | "5818948" | "5832024" | "5848152" |	US-PGPUB; USPAT	OR	ON	2017/02/28 12:40

		"5852722" | "5875233" | "5905768" | "5946343" | "5956025" | "5960006" | "5984512" | "5987611" | "5990884" | "5991307" | "5999906" | "6018376" | "6029196" | "6038614" | "6046550" | "6061457" | "6081266" | "6088063" | "6101195" | "6127941" | "6148205" | "6169725" | "6181383" | "6195435" | "6212282" | "6246701" | "6269406" | "6301012" | "6310652" | "6313879" | "6321252" | "6353172" | "6356871" | "6418150" | "6442443" | "6449642" | "6456783" | "6463474" | "6466832" | "6469633" | "6487296" | "6493832" | "6535121" | "6636269" | "6653899" | "6654720" | "6654956" | "6684060" | "6704421" | "6741961" | "6778073" | "6816510" | "6826283" | "6859460" | "6859538" | "6873862" | "6901439" | "6915347" | "6919771" | "6931557" | "6937988" | "6987767" | "7046677" | "7092528" | "7092694" | "7096169" | "7120168" | "7130316" | "7136934" | "7139981" | "7146260" | "7161939" | "7197148" | "7206618" | "7260616" | "7263110" | "7277547" | "7289631" | "7295548" | "7305694" | "7308188" | "7324857" | "7356011" | "7366206" | "7428310" | "7430181" | "7457948" | "7472058" | "7492912" | "7505889" | "7548744" | "7548851" | "7558224" | "7558635" | "7627825" | "7630501" | "7653344" | "7675943" | "7676044" | "7676142" | "7688306" | "7721032" | "7746906" | "7761176" | "7831054" | "7853341" | "7882234" | "7933418" | "7945636" | "7945708" | "7966388" | "7987294" | "7995732" | "8041062" | "8050203" | "8150079" | "8170222" | "8233029" | "8311226" | "8374595" | "8411883" | "8442239" | "8477958" | "8565455" | "8600084" | "8654995" | "8861739" | "8942395" | "D260764" | "D279779" | "D293671" | "D301037" | "D304443" | "D313023" | "D313398" | "D313600" | "D320598" | "D322609" | "D326450" | "D327060" | "D331388" | "D333135" | "D350531" | "D350962" | "D354059" | "D354751" | "D356093" | "D356312" | "D357024" | "D362446" | "D363933" | "D364877" | "D364878" | "D365102" | "D366044" | "D372716" | "D377651" | "D379816" | "D380752" | "D382271" | "D384940" | "D387352" | "D388792" | "D389143" | "D392641" | "D393628" | "D394659" | "D395889" | "D397996" | "D401587" | "D404741" | "D405071" | "D406847" | "D407071" | "D410927" | "D412337" | "D415496" | "D416021" | "D420006" | "D429246").PN.				
S1093	143	("D430143" | "D431552" | "D432525" | "D444475" | "D452520" | "D462339" | "D462340" | "D462945" | "D466108" |	US-PGPUB; USPAT	OR	ON	2017/02/28 12:40

		"D468297" | "D474763" | "D475993" | "D476643" | "D477310" | "D478051" | "D478069" | "D478896" | "D479520" | "D481056" | "D486145" | "D491925" | "D493148" | "D495333" | "D496003" | "D496005" | "D496335" | "D497363" | "D499086" | "D499395" | "D499718" | "D500015" | "D501477" | "D504872" | "D504885" | "D506463" | "D515072" | "D515557" | "D518475" | "D524296" | "D527375" | "20060173844" | "20060222186" | "20060227985" | "20060259649" | "20060270395" | "20070087686" | "20080075295" | "20080205070" | "20080303947" | "20090011798" | "20090070434" | "20090124289" | "20100087089" | "20110001632" | "20110316768" | "20150365987" | "20040185773" | "20050154766" | "20060222186" | "20060259649" | "20070087686" | "20080205070" | "20080303947" | "20090124289" | "20100087089" | "20110001632" | "3956591" | "4105974" | "4306114" | "5182552" | "5440644" | "5625350" | "5774016" | "5875233" | "6535121" | "6873862" | "7161939" | "7308188" | "7472058" | "7558635" | "7721032" | "7761176" | "7945708" | "7995732" | "8041062" | "8233029" | "8654995" | "8423893" | "8521316" | "20040015252" | "20040237750" | "20060173972" | "20060205349" | "20080077261" | "20080092204" | "20080152165" | "20010042107" | "20020022453" | "20020026442" | "20020124097" | "20030157951" | "20040024478" | "20070142944" | "5923902" | "6256554" | "6404811" | "6522886" | "6611537" | "6631410" | "6757517" | "6778869" | "7130608" | "7130616" | "7143939" | "7236773" | "7483538" | "7571014" | "7643894" | "7657910" | "7853341" | "8014423" | "8045952" | "8103009" | "8234395" | "None" | "20080215169" | "20090251604" | "20110228944" | "20140256260" | "20040081099" | "6999827" | "7302468" | "7728911" | "7908637" | "7930644" | "8054987" | "8055353" | "8275307" | "8639370" | "8938312" | "20100054709" | "20050281138" | "20040031853" | "20020072816" | "20020098878" | "20030023329" | "20040239816" | "20050100174" | "20060029005" | "20060089735" | "20060229752" | "20100274372").PN.				
S1094	379	S1092 S1093	US-PGPUB; USPAT	OR	ON	2017/02/28 12:40
S1095	75974	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S1096	131466	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1097	138968	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S1098	138968	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1099	131466	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1100	227696	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR				

		G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1101	131466	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1102	227696	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR					

		H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1103	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1104	4222	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1105	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1106	75974	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S1107	131466	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1108	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1109	227696	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR				

		H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1110	386374	S1095 S1096 S1097 S1098 S1099 S1100 S1101 S1102 S1103 S1104 S1105 S1106 S1107 S1108 S1109	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1111	305122	S1110 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1112	13745	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S1110	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1113	11762	S1111 and S1112	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1114	1842	S1113 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3) and wireless$4 and (stereo pair group$4) and pair$4	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1115	880516	((G06F3/165 OR G06F3/04842 OR G06F3/162 OR G06F17/30026 OR G06F17/30283 OR G06F3/0482 OR G06F3/04847 OR G06F3/04855 OR H04R2227/005 OR H04R27/00 OR H04R2227/003 OR H04R2420/01 OR H04R2420/07 OR H04R2430/01 OR H04R29/008 OR H04R3/00 OR H04R3/12 OR H04R5/04 OR H04S7/30 OR H04S2400/01 OR H04S2400/13 OR H04S3/008 OR H04S7/00 OR H04S7/308 OR G05B15/02 OR G11B19/02 OR G11B27/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/20 OR H03G3/3026 OR H04N21/4307 OR H04N21/43615 OR H04N21/43637 OR H04N21/4852 OR H04N21/8106).CPC. OR (1/1 OR 700/94 OR 381/104 OR	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41

		381/105 OR 381/106 OR 381/107 OR 381/108 OR 381/109 OR 715/716).CCLS.)				
S1116	1051	S1114 and S1115	US-PGPUB; USPAT	OR	ON	2017/02/28 12:41
S1117	1331	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2017/02/28 12:44
S1118	15625	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2017/02/28 12:44
S1119	16704	S1117 S1118	US-PGPUB; USPAT	OR	ON	2017/02/28 12:44
S1120	21	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2017/02/28 12:44
S1121	12295	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab.	US-PGPUB; USPAT	OR	ON	2017/02/28 12:44
S1122	11605	($6zone scene configu$8) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2017/02/28 12:44
S1123	37335	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).clm.	US-PGPUB; USPAT	OR	ON	2017/02/28 12:44
S1124	34922	($6zone scene configu$8) same (speaker transducer loud$5speaker).clm.	US-PGPUB; USPAT	OR	ON	2017/02/28 12:44
S1125	41076	S1121 S1122 S1123 S1124	US-PGPUB; USPAT	OR	ON	2017/02/28 12:44
S1126	76417	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22

		H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S1127	132061	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22

		G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1128	139524	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22
S1129	139524	((G11B27/105 OR G11B2220/61 OR	US-	OR	ON	2017/03/15

		G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	PGPUB; USPAT			12:22
S1130	132061	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22

		G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1131	229330	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22

		H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR				

		H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1132	132061	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22

		G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1133	229330	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22

		H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR				

		H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1134	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22
S1135	4243	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22
S1136	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22
S1137	76417	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22

		H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S1138	132061	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22

		H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1139	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22
S1140	229330	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22

		H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR					

		G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1141	388327	S1126 S1127 S1128 S1129 S1130 S1131 S1132 S1133 S1134 S1135 S1136 S1137 S1138 S1139 S1140	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22
S1142	306969	S1141 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22
S1143	13828	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S1141	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22
S1144	11841	S1142 and S1143	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22
S1145	1869	S1144 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3 lfe) and wireless$4 and (stereo pair group$4) and pair$4	US-PGPUB; USPAT	OR	ON	2017/03/15 12:22
S1146	1	"14304410"	US-PGPUB; USPAT	OR	ON	2017/03/15 13:05
S1147	49	baudino.in. and local	US-PGPUB; USPAT	OR	ON	2017/03/15 13:06
S1148	51	baudino.in. and local$4	US-PGPUB; USPAT	OR	ON	2017/03/15 13:06
S1149	6	baudino.in. and local$4 and surround	US-PGPUB; USPAT	OR	ON	2017/03/15 13:06
S1150	11	"Term Removed"	US-PGPUB; USPAT	OR	ON	2017/03/15 13:12
S1151	1	"20150180434"	US-PGPUB; USPAT	OR	ON	2017/03/15 13:12
S1152	17010	((G06F3/165 OR H03G3/20 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S7/30).CPC. OR (700/94 381/107).CCLS.)	US-PGPUB; USPAT	OR	ON	2017/03/15 13:13
S1153	1078	((G06F3/165 OR H03G3/20 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S7/30).CPC. and (700/94 381/107).CCLS.)	US-PGPUB; USPAT	OR	ON	2017/03/15 13:13
S1154	85	S1145 and S1153	US-PGPUB; USPAT	OR	ON	2017/03/15 13:13

S1155	67	S1145 and S1153 not sonos.as.	US-PGPUB; USPAT	OR	ON	2017/03/15 13:14
S1156	24	("5937176" | "20030170009" | "7690017" | "20060215630" | "8396578" | "20070143801" | "20070143801" | "6892167" | "20050237952" | "20060248173" | "20060233120" | "5675390" | "8266516" | "20060165385" | "4710917" | "6522646" | "20090089813" | "7668964" | "6711647" | "20050041604" | "20070091906" | "20040054689" | "6202211" | "8335576" | "20030055635").PN.	US-PGPUB; USPAT	OR	ON	2017/03/15 13:25
S1157	1	S1156 and "6202211"	US-PGPUB; USPAT	OR	ON	2017/03/15 13:27
S1179	76512	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57
S1180	132177	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57

		G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR				

		H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1181	139622	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57
S1182	139622	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57

		H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S1183	132177	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57

		H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1184	229627	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57

		OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				

S1185	132177	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57

		H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1186	229627	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57

		G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1187	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57

S1188	4247	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57
S1189	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57
S1190	76512	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57
S1191	132177	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57

		G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				

S1192	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57
S1193	229627	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57

		G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1194	388692	S1179 S1180 S1181 S1182 S1183 S1184 S1185 S1186 S1187 S1188 S1189 S1190 S1191 S1192 S1193	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57
S1195	13865	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S1194	US-PGPUB; USPAT	OR	ON	2017/03/18 14:57
S1196	4103	S1179 and S1195	US-PGPUB; USPAT	OR	ON	2017/03/18 15:09
S1197	2164	S1196 and (bond$4 exclus$6 dynamic$6)	US-PGPUB; USPAT	OR	ON	2017/03/18 15:11
S1198	681	S1196 and (bond$4 exclus$6 dynamic$6)	US-	OR	ON	2017/03/18

		with (zone scene config$8 snap$shot)	PGPUB; USPAT			15:11
S1199	1311	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) AND GROUP$5	US-PGPUB; USPAT	OR	ON	2017/03/18 15:12
S1200	1267	S1199 and (stereo mono monaural left right)	US-PGPUB; USPAT	OR	ON	2017/03/18 15:12
S1201	347	S1199 and (stereo mono monaural left right) and S1179	US-PGPUB; USPAT	OR	ON	2017/03/18 15:15
S1202	805	S1196 and (bond$4 exclus$6 dynamic$6) with (zone scene config$8 snap$shot network$4)	US-PGPUB; USPAT	OR	ON	2017/03/18 15:15
S1203	132177	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR	US-PGPUB; USPAT	OR	ON	2017/03/18 15:23

		G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1204	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/03/18 15:23
S1205	5920	S1203 and S1204	US-PGPUB; USPAT	OR	ON	2017/03/18 15:23
S1206	55	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S1205	US-PGPUB; USPAT	OR	ON	2017/03/18 15:23
S1207	347	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S1201	US-PGPUB; USPAT	OR	ON	2017/03/18 15:24
S1208	347	(scene config$8 snap$shot network$4 zone) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S1201	US-PGPUB; USPAT	OR	ON	2017/03/18 15:25
S1209	347	(scene config$8 snap$shot network$4 zone) with play$4 and play$5 with (diverg$5 uniqu$6 original$5 different) near3 (song media content) and (sync synchron$8) and S1201	US-PGPUB; USPAT	OR	ON	2017/03/18 15:26
S1210	295	(scene config$8 snap$shot network$4 zone) with play$4 and play$5 with (diverg$5 uniqu$6 original$5 different) near3 (song media content) and (sync synchron$8) and S1198	US-PGPUB; USPAT	OR	ON	2017/03/18 15:28
S1211	295	S1209 and S1210	US-PGPUB; USPAT	OR	ON	2017/03/18 15:28
S1212	29	S1205 and S1210	US-	OR	ON	2017/03/18

			PGPUB; USPAT			15:29
S1213	6109604	s "167"	US-PGPUB; USPAT	OR	ON	2017/03/18 15:41
S1214	229627	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR	US-PGPUB; USPAT	OR	ON	2017/03/18 15:41

		G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S1215	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/03/18 15:41
S1216	4054	S1215 and S1214	US-PGPUB; USPAT	OR	ON	2017/03/18 15:41
S1217	71	S1216 and ($6zone scene configu$8).ab. and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2017/03/18 15:41
S1218	71	S1217	US-PGPUB; USPAT	OR	ON	2017/03/18 15:41

S1219	1350	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2017/03/18 15:44
S1220	1350	S1219	US-PGPUB; USPAT	OR	ON	2017/03/18 15:44
S1221	139622	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2017/03/18 15:45
S1222	139622	S1221	US-PGPUB; USPAT	OR	ON	2017/03/18 15:45
S1223	4247	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2017/03/18 15:45
S1224	304	S1223 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2017/03/18 15:45
S1225	5	S1224 and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2017/03/18 15:45
S1226	5	S1225	US-PGPUB; USPAT	OR	ON	2017/03/18 15:45
S1227	5605	(scene config$8 snap$shot network$4 zone) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2017/03/18 15:52
S1228	132177	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR	US-PGPUB; USPAT	OR	ON	2017/03/18 16:01

		G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR				

		H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1229	9207	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2017/03/18 16:01
S1230	5920	S1228 and S1229	US-PGPUB; USPAT	OR	ON	2017/03/18 16:01
S1231	2768	(output pair$5 channel surround$4 lfe) same config$8 and S1230	US-PGPUB; USPAT	OR	ON	2017/03/18 16:01
S1232	3536	(output pair$5 channel surround$4 lfe) same (zone scene config$8 snap$shot network$4) and S1230	US-PGPUB; USPAT	OR	ON	2017/03/18 16:01
S1233	1	"2005004532"	US-PGPUB; USPAT	OR	ON	2017/03/18 16:33
S1265	6195	group$6 with volume near2 (control$4 adjust$6 command$4 instruct$4)	US-PGPUB; USPAT	OR	ON	2017/03/21 11:38
S1266	2631640	second near4 (volume device control$4 adjust$6 command$4 instruct$5)	US-PGPUB; USPAT	OR	ON	2017/03/21 11:38
S1267	15	upnp$4 with adjust$6 near2 (volume gain amplitude)	US-PGPUB; USPAT	OR	ON	2017/03/21 11:39
S1269	900	upnp$4 and adjust$6 near2 (volume gain amplitude)	US-PGPUB; USPAT	OR	ON	2017/03/21 11:44
S1270	240	upnp$4 and adjust$6 near2 (volume gain amplitude) same network$4	US-PGPUB; USPAT	OR	ON	2017/03/21 11:45
S1271	3	upnp$4 and adjust$6 near2 (volume gain amplitude) same network$4 and @ad<="20040605"	US-PGPUB; USPAT	OR	ON	2017/03/21 11:45
S1272	15	upnp$4 and adjust$6 near2 (volume gain amplitude) and @ad<="20040605"	US-PGPUB; USPAT	OR	ON	2017/03/21 11:45
S1273	599	(surround "5.1" "7.1") with mix$4 and volume near3 group$6	US-PGPUB; USPAT	OR	ON	2017/03/21 11:53
S1274	611	(surround "5.1" "7.1") with mix$4 and volume near3 (bus group$6)	US-PGPUB; USPAT	OR	ON	2017/03/21 11:53
S1275	1275	(surround "5.1" "7.1") with mix$4 and (gain volume level amplitude) near3 (bus group$6)	US-PGPUB; USPAT	OR	ON	2017/03/21 11:53
S1276	345	(surround "5.1" "7.1") with mix$4 and (gain volume level amplitude) near3 (bus group$6) and @ad<="20040605"	US-PGPUB; USPAT	OR	ON	2017/03/21 11:53
S1277	0	shdema.in. and upnp$4	US-PGPUB; USPAT	OR	ON	2017/03/21 12:57

S1278	1	"20030086580" and (gain volume level amplitude) near3 (bus group$6) and @ad<="20040605"	US-PGPUB; USPAT	OR	ON	2017/03/21 13:03
S1304	761	((G06F3/165 g06f3/162).CPC. and (715/716 700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2017/03/27 16:36
S1305	10981	((G06F3/165 g06f3/162).CPC. (715/716 700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2017/03/27 16:36
S1306	225743	($6zone scene configu$8) same (speaker transducer loud$3speaker)	US-PGPUB; USPAT	OR	ON	2017/03/27 16:36
S1307	27436	($6zone scene configu$8) same (speaker transducer loud$3speaker) same (group$6 bus$4 sub$group$4 sub$mix$6)	US-PGPUB; USPAT	OR	ON	2017/03/27 16:37
S1308	546	S1307 and S1305	US-PGPUB; USPAT	OR	ON	2017/03/27 16:39
S1309	10278	($6zone scene configu$8) same (speaker transducer loud$3speaker) same (group$6 bus$4 sub$group$4 sub$mix$6) and ($6zone scene configu$8) near6 (display$5)	US-PGPUB; USPAT	OR	ON	2017/03/27 16:39
S1310	10371	($6zone scene configu$8 snap$shot) same (speaker transducer loud$3speaker) same (group$6 bus$4 sub$group$4 sub$mix$6) and ($6zone scene configu$8 snap$shot) near6 (display$5)	US-PGPUB; USPAT	OR	ON	2017/03/27 16:40
S1311	1	"20160026429"	US-PGPUB; USPAT	OR	ON	2017/03/27 16:40
S1312	453	S1307 and S1305 not sonos.as.	US-PGPUB; USPAT	OR	ON	2017/03/27 16:42
S1313	308	S1307 and S1305 not sonos.as. and @ad<="20140723"	US-PGPUB; USPAT	OR	ON	2017/03/27 16:42
S1314	2	("2009/0171677").URPN.	USPAT	OR	ON	2017/03/27 16:52
S1315	9	("20030182001" | "20060069828" | "20070079308" | "20090119684" | "20090171677" | "5703794" | "6904475" | "7743389" | "8250573").PN. OR ("8972984").URPN.	US-PGPUB; USPAT	OR	ON	2017/03/27 16:53
S1316	1314	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) AND GROUP$5	US-PGPUB; USPAT	OR	ON	2017/03/27 16:53
S1317	9	("2008/0141134").URPN.	USPAT	OR	ON	2017/03/27 16:55
S1318	9129	(additional second$4 plural$6) near3 (speaker transducer loud$5speaker playback near2 device) same (media song title)	US-PGPUB; USPAT	OR	ON	2017/03/27 16:55
S1319	351	S1310 and S1308	US-PGPUB; USPAT	OR	ON	2017/03/27 16:56

S1320	71	S1310 and S1304	US-PGPUB; USPAT	OR	ON	2017/03/27 16:57
S1321	21	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2017/03/27 17:27
S1322	341	((G06F3/165 g06f3/162).CPC. (715/716 700/94).CCLS.)and (unshown invisible undisplay$4 "not" near2 display$4)	US-PGPUB; USPAT	OR	ON	2017/03/27 17:28
S1323	1	"not" near2 display$6	US-PGPUB; USPAT	OR	ON	2017/03/27 17:28
S1324	5	"not" with display$6	US-PGPUB; USPAT	OR	ON	2017/03/27 17:29
S1325	357787	(without "not") with display$6	US-PGPUB; USPAT	OR	ON	2017/03/27 17:43
S1326	160219	(without "not" does) near3 display$6	US-PGPUB; USPAT	OR	ON	2017/03/27 17:43
S1327	1136	((G06F3/165 g06f3/162).CPC. (715/716 700/94).CCLS.)and (unshown invisible undisplay$4 (without "not" does) near3 display$6)	US-PGPUB; USPAT	OR	ON	2017/03/27 17:44
S1328	210	((G06F3/165 g06f3/162).CPC. (715/716 700/94).CCLS.)and (unshown invisible undisplay$4 (without "not" does) near3 display$6) same (group$6 zone config$8 scene snap$shot)	US-PGPUB; USPAT	OR	ON	2017/03/27 17:44
S1329	0	("2016/0378426").URPN.	USPAT	OR	ON	2017/03/27 17:50
S1330	14	("2011/0185036").URPN.	USPAT	OR	ON	2017/03/27 17:51
S1331	102	((G06F3/165 g06f3/162).CPC. (715/716 700/94).CCLS.)and (unshown invisible undisplay$4 (without "not" does) near3 display$6) same (group$6 zone config$8 scene snap$shot) and $5speaker	US-PGPUB; USPAT	OR	ON	2017/03/27 17:55
S1332	57	((G06F3/165 g06f3/162).CPC. (715/716 700/94).CCLS.)and (unshown invisible undisplay$4 (without "not" does) near3 display$6) same (group$6 zone config$8 scene snap$shot) and $5speaker same (scene config$6 zone network$4 snap$shot group$6)	US-PGPUB; USPAT	OR	ON	2017/03/27 17:56
S1333	162	((G06F3/165 g06f3/162).CPC. (715/716 700/94).CCLS.)and (unshown invisible undisplay$4 (without "not" does) near3 display$6) same (group$6 zone config$8 scene snap$shot) and (gui (user graphic$6) near2 interface)	US-PGPUB; USPAT	OR	ON	2017/03/27 18:43
S1334	40	S1332 and S1333	US-PGPUB; USPAT	OR	ON	2017/03/27 18:44

S1335	12434	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab.	US-PGPUB; USPAT	OR	ON	2017/03/27 18:48
S1336	11734	($6zone scene configu$8) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2017/03/27 18:48
S1337	37769	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).clm.	US-PGPUB; USPAT	OR	ON	2017/03/27 18:48
S1338	35330	($6zone scene configu$8) same (speaker transducer loud$5speaker).clm.	US-PGPUB; USPAT	OR	ON	2017/03/27 18:48
S1339	41526	S1335 S1336 S1337 S1338	US-PGPUB; USPAT	OR	ON	2017/03/27 18:48
S1340	144	(S1335 S1336 S1337 S1338) and S1304	US-PGPUB; USPAT	OR	ON	2017/03/27 18:48
S1341	293	S1339 and (unshown invisible undisplay$4 (without "not" does) near3 display$6) same (group$6 zone config$8 scene snap$shot) and (gui (user graphic$6) near2 interface)	US-PGPUB; USPAT	OR	ON	2017/03/27 18:56
S1342	5	("2012/0210225").URPN.	USPAT	OR	ON	2017/03/27 18:59
S1364	1	("5440644" | "5761320" | "6032202" | "6469633" | "7295548" | "7630501" | "7987294" | "8483853" | "None").PN. and undefin$4	US-PGPUB; USPAT	OR	ON	2017/03/31 16:22
S1365	1	"20160026428"	US-PGPUB; USPAT	OR	ON	2017/03/31 16:22
S1366	12465	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab.	US-PGPUB; USPAT	OR	ON	2017/03/31 16:22
S1367	11763	($6zone scene configu$8) same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2017/03/31 16:22
S1368	37880	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).clm.	US-PGPUB; USPAT	OR	ON	2017/03/31 16:22
S1369	35436	($6zone scene configu$8) same (speaker transducer loud$5speaker).clm.	US-PGPUB; USPAT	OR	ON	2017/03/31 16:22
S1370	41640	S1366 S1367 S1368 S1369	US-PGPUB; USPAT	OR	ON	2017/03/31 16:22
S1371	295	S1370 and (unshown invisible undisplay$4 (without "not" does) near3 display$6) same (group$6 zone config$8 scene snap$shot) and (gui (user graphic$6) near2 interface)	US-PGPUB; USPAT	OR	ON	2017/03/31 16:22
S1372	295	S1370 and (unshown invisible undisplay$4 ($undefin$6 without "not"	US-PGPUB;	OR	ON	2017/03/31 16:22

		does) near3 display$6) same (group$6 zone config$8 scene snap$shot) and (gui (user graphic$6) near2 interface)	USPAT			
S1373	342	S1370 and (unshow$4 invisible undisplay$4 $undefin$6 (without "not" does)) near3 (show$4 defin$6 display$6) same (group$6 zone config$8 scene snap$shot) and (gui (user graphic$6) near2 interface)	US-PGPUB; USPAT	OR	ON	2017/03/31 16:24
S1374	11885	($6zone scene configu$8 set$4up snap$3shot cad)same (speaker transducer loud$5speaker).ab.	US-PGPUB; USPAT	OR	ON	2017/03/31 16:25
S1375	35617	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker).clm.	US-PGPUB; USPAT	OR	ON	2017/03/31 16:25
S1376	342	(S1366 S1368 S1374 S1375 S1367 S1369) and (unshow$4 invisible undisplay$4 $undefin$6 (without "not" does)) near3 (show$4 defin$6 display$6) same (group$6 zone config$8 scene snap$shot) and (gui (user graphic$6) near2 interface)	US-PGPUB; USPAT	OR	ON	2017/03/31 16:25
S1377	10274	S1366 and high$4	US-PGPUB; USPAT	OR	ON	2017/03/31 16:27
S1378	1	S1365 and high$4	US-PGPUB; USPAT	OR	ON	2017/03/31 16:27
S1379	339	(S1366 S1368 S1374 S1375 S1367 S1369) and (unshow$4 invisible undisplay$4 $undefin$6 (without "not" does)) near3 (show$4 defin$6 display$6) same (group$6 zone config$8 scene snap$shot) and (gui (user graphic$6) near2 interface) and (strength power signal)	US-PGPUB; USPAT	OR	ON	2017/03/31 16:28
S1380	47	(S1366 S1368 S1374 S1375 S1367 S1369) and (unshow$4 invisible undisplay$4 $undefin$6 (without "not" does)) near3 (show$4 defin$6 display$6) same (group$6 zone config$8 scene snap$shot) and (gui (user graphic$6) near2 interface) and (strength power) near2 signal	US-PGPUB; USPAT	OR	ON	2017/03/31 16:28
S1381	51624	((G06F3/165 OR H04L67/02 OR H04L67/10 OR H04R2227/005 OR H04R29/007).CPC. OR (715/716 700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2017/03/31 16:29
S1382	33	S1376 and S1381	US-PGPUB; USPAT	OR	ON	2017/03/31 16:29
S1383	2	S1380 and S1382	US-PGPUB; USPAT	OR	ON	2017/03/31 16:29
S1384	78	S1380 S1382	US-PGPUB; USPAT	OR	ON	2017/03/31 16:29
S1385	342	(S1366 S1368 S1374 S1375 S1367 S1369) and (unshow$4 invisible	US-PGPUB;	OR	ON	2017/03/31 16:30

		undisplay$4 $undefin$6 (without "not" does)) near3 (show$4 defin$6 display$6) same (group$6 zone config$8 scene snap$shot) and (gui (user graphic$6) near2 interface) and (time season day month year strength power signal)	USPAT			
S1386	33	S1381 and S1385	US-PGPUB; USPAT	OR	ON	2017/03/31 16:44
S1387	1244	(S1366 S1368 S1374 S1375 S1367 S1369) and S1381	US-PGPUB; USPAT	OR	ON	2017/03/31 16:44
S1388	101	(S1366 S1368 S1374 S1375 S1367 S1369) and (unshow$4 invisible undisplay$4 $undefin$6 (without "not" does)) near3 (show$4 defin$6 display$6) and S1381	US-PGPUB; USPAT	OR	ON	2017/03/31 16:45
S1389	0	mccord and morganstern	US-PGPUB; USPAT	OR	ON	2017/03/31 16:55
S1390	15	mccord and sonos	US-PGPUB; USPAT	OR	ON	2017/03/31 16:55
S1391	5641	(scene config$8 snap$shot network$4 zone) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2017/03/31 17:01
S1392	5654	(scene config$8 snap$shot network$4 zone set$up cad) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2017/03/31 17:02
S1393	278	(S1366 S1368 S1374 S1375 S1367 S1369) and S1392 and S1381	US-PGPUB; USPAT	OR	ON	2017/03/31 17:04
S1394	5560	(scene config$6 zone network$4 CAD snap$shot set$up) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2017/03/31 17:14
S1395	5560	(scene config$6 zone network$4 CAD snap$shot set$up) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S1392	US-PGPUB; USPAT	OR	ON	2017/03/31 17:14
S1396	964	(scene config$6 zone network$4 CAD snap$shot set$up) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S1381	US-PGPUB; USPAT	OR	ON	2017/03/31 17:14
S1397	964	S1395 and S1396	US-PGPUB; USPAT	OR	ON	2017/03/31 17:16
S1479	9	"Term Removed"	US-PGPUB; USPAT	OR	ON	2017/04/21 08:38
S1480	1	"20150058727"	US-PGPUB; USPAT	OR	ON	2017/04/21 08:38
S1481	60297	((G05B15/02 OR G06F3/0482 OR	US-	OR	ON	2017/04/21

		G06F3/04842 OR G06F3/16 OR G06F3/165 OR H03G1/02 OR H03G7/00 OR H04H60/80 OR H04N21/43615 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12).CPC. OR (715/716 700/94).CCLS.)	PGPUB; USPAT			08:39
S1482	1653	((G05B15/02 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/165 OR H03G1/02 OR H03G7/00 OR H04H60/80 OR H04N21/43615 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12).CPC. and (715/716 700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2017/04/21 08:39
S1483	6992	S1481 and (speaker loud$speaker transducer) with (network$4 wireless intelligent smart)	US-PGPUB; USPAT	OR	ON	2017/04/21 08:40
S1484	385	S1482 and (speaker loud$speaker transducer) with (network$4 wireless intelligent smart)	US-PGPUB; USPAT	OR	ON	2017/04/21 08:40
S1485	1	"20150286360"	US-PGPUB; USPAT	OR	ON	2017/04/21 09:39
S1486	1	"8290603".pn.	US-PGPUB; USPAT	OR	ON	2017/04/21 09:39
S1487	0	"20150058727" and group near2 scene	US-PGPUB; USPAT	OR	ON	2017/04/21 10:16
S1488	1	"20150058727" and (multi$zone and group$4 with scene)	US-PGPUB; USPAT	OR	ON	2017/04/21 10:17
S1489	1	S1486 and (multi$zone and group$4 with scene)	US-PGPUB; USPAT	OR	ON	2017/04/21 10:20
S1490	1	S1486 and (multi$zone and group$4 with scene) and party	US-PGPUB; USPAT	OR	ON	2017/04/21 10:20
S1491	14	"Term Removed"	US-PGPUB; USPAT	OR	ON	2017/04/21 10:37
S1492	1	"20160364206" and group near2 scene	US-PGPUB; USPAT	OR	ON	2017/04/21 10:37
S1493	0	"20160364206" and display$6 with second near3 group$4	US-PGPUB; USPAT	OR	ON	2017/04/21 10:43
S1494	4424	party with mode same (icon display$6 control$6 command$6) and $5speaker	US-PGPUB; USPAT	OR	ON	2017/04/21 10:50
S1495	391	party near2 mode same (icon display$6 control$6 command$6) and $5speaker	US-PGPUB; USPAT	OR	ON	2017/04/21 10:50
S1496	0	"8290603".pn. and applu	US-PGPUB; USPAT	OR	ON	2017/04/21 10:51
S1497	1	"8290603".pn. and apply	US-PGPUB; USPAT	OR	ON	2017/04/21 10:51

S1498	863	party near2 mode same (icon display$6 control$6 command$6) same$5speaker	US-PGPUB; USPAT	OR	ON	2017/04/21 10:52
S1499	7	party near2 mode with (icon display$6 control$6 command$6) with $5speaker	US-PGPUB; USPAT	OR	ON	2017/04/21 10:53
S1500	15	party near2 mode with (icon display$6 control$6 command$6) same $5speaker	US-PGPUB; USPAT	OR	ON	2017/04/21 10:54
S1501	8	party near2 mode with (icon display$6 control$6 command$6) same $5speaker not S1499	US-PGPUB; USPAT	OR	ON	2017/04/21 10:54
S1502	8	party near2 mode with (icon display$6 control$6 command$6) same $5speaker not S1499 and party near2 mode	US-PGPUB; USPAT	OR	ON	2017/04/21 10:55
S1503	1	"8483853".pn.	US-PGPUB; USPAT	OR	ON	2017/04/21 10:57
S1512	5	"2101795"	US-PGPUB; USPAT	OR	ON	2017/04/21 17:09
S1525	32	"5625697" "20050254640"	US-PGPUB; USPAT	OR	ON	2017/04/22 07:45
S1526	1	"20150286360"	US-PGPUB; USPAT	OR	ON	2017/04/24 15:01
S1527	1	"Term Removed" and physic$6	US-PGPUB; USPAT	OR	ON	2017/04/24 15:07
S1528	3	"Term Removed" and (push$button push$4)	US-PGPUB; USPAT	OR	ON	2017/04/24 15:10
S1529	3	"Term Removed" and (interface)	US-PGPUB; USPAT	OR	ON	2017/04/24 15:14
S1530	6	"Term Removed" and attach$4	US-PGPUB; USPAT	OR	ON	2017/04/24 15:16
S1531	4	"Term Removed" and integ$6	US-PGPUB; USPAT	OR	ON	2017/04/24 15:18
S1532	7	"Term Removed" and upon	US-PGPUB; USPAT	OR	ON	2017/04/24 15:21
S1566	10	party near2 mode with (icon display$6 control$6 command$6) with $5speaker	US-PGPUB; USPAT	OR	ON	2018/08/08 16:11
S1567	10	party near2 mode with (icon display$6 control$6 command$6) same $5speaker not S1566 and party near2 mode	US-PGPUB; USPAT	OR	ON	2018/08/08 16:11
S1568	13	"Term Removed"	US-PGPUB; USPAT	OR	ON	2018/08/08 16:11
S1569	2	"20150180434"	US-PGPUB; USPAT	OR	ON	2018/08/08 16:12

S1570	2	S1569 AND ((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC. OR (381/107 700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:13
S1571	23157	((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC. OR (381/107 700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:13
S1572	150204	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR	US-PGPUB; USPAT	OR	ON	2018/08/08 16:13

		G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1573	1149	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S1572	US-PGPUB; USPAT	OR	ON	2018/08/08 16:13
S1574	1149	S1573	US-PGPUB; USPAT	OR	ON	2018/08/08 16:13
S1575	5595	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:16
S1576	5595	S1575	US-PGPUB; USPAT	OR	ON	2018/08/08 16:16
S1577	5595	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:17
S1578	39329	(eq equal$9) same (smart intelligen$6 wireless$4 network$4 playback) near3 (player $6speaker device)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:17
S1579	1702646	(output pair$5 channel surround$4) with config$8	US-PGPUB; USPAT	OR	ON	2018/08/08 16:18
S1580	40904	(output pair$5 channel surround$4) with config$8 and S1572	US-PGPUB; USPAT	OR	ON	2018/08/08 16:18
S1581	59540	(output pair$5 channel surround$4) with (kind type config$8) and S1572	US-PGPUB; USPAT	OR	ON	2018/08/08 16:23
S1582	1852	S1581 and S1578	US-PGPUB; USPAT	OR	ON	2018/08/08 16:23
S1583	1186	(zone scene config$9) with play$4 and	US-	OR	ON	2018/08/08

		S1582	PGPUB; USPAT			16:24
S1584	1071	(zone scene config$9) with play$4 same (eq equal$9) same (smart intelligen$6 wireless$4 network$4 playback) near3 (player $6speaker device)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:24
S1585	1	"20070087686"	US-PGPUB; USPAT	OR	ON	2018/08/08 16:25
S1586	10214	((H04H40/36 OR H04R2205/024 OR H04R2420/05 OR H04R2420/07 OR H04S3/00 OR H04S7/30 OR H04S7/301 OR H04S7/308).CPC. OR (455/3.06).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:25
S1587	211	S1586 and S1584	US-PGPUB; USPAT	OR	ON	2018/08/08 16:25
S1588	1	"20070087686" and (eq equal$9 process$6)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:26
S1589	1	"20070087686" and (frequen$6)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:32
S1590	50	"Term Removed"	US-PGPUB; USPAT	OR	ON	2018/08/08 16:37
S1591	4	S1590 and S1578	US-PGPUB; USPAT	OR	ON	2018/08/08 16:38
S1592	18	(output pair$5 channel surround$4) with config$8 and S1590	US-PGPUB; USPAT	OR	ON	2018/08/08 16:42
S1593	16	(output pair$5 channel surround$4) with config$8 and S1590 not S1591	US-PGPUB; USPAT	OR	ON	2018/08/08 16:42
S1594	13	(output pair$5 channel surround$4) with config$8 and S1590 and (eq equal$9)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:45
S1595	17	(output pair$5 channel surround$4) with config$8 and S1590 and (eq equal$9 frequenc$4)	US-PGPUB; USPAT	OR	ON	2018/08/08 16:45
S1596	59	("2008/0077261").URPN.	USPAT	OR	ON	2018/08/08 16:49
S1597	30	("2008/0077261").URPN. not mccord	USPAT	OR	ON	2018/08/08 16:49
S1598	1030	("20010001160" | "20010009604" | "20010022823" | "20010027498" | "20010032188" | "20010042107" | "20010043456" | "20010046235" | "20010047377" | "20010050991" | "20020002039" | "20020002562" | "20020002565" | "20020003548" | "20020015003" | "20020022453" | "20020026442" | "20020034374" | "20020042844" | "20020049843" | "20020062406" | "20020065926" | "20020067909" | "20020072816" | "20020072817" | "20020073228" |	US-PGPUB; USPAT	OR	ON	2018/08/08 16:51

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		"8311226"	"8315555"	"8316147"			
		"8325931"	"8325935"	"8331585"			
		"8340330"	"8345709"	"8364295"			
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		"8477958"	"8483853"	"8498726"			
		"8509211"	"8520870"	"8565455"			
		"8577045"	"8577048"	"8588432"			
		"8588949"	"8600075"	"8600084"			
		"8611559"	"8615091"	"8620006"			
		"8639830"	"8654995"	"8672744"			
		"8683009"	"8700730"	"8731206"			
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		"8819554"	"8843224"	"8843228"			
		"8843586"	"8855319"	"8861739"			
		"8879761"	"8885851"	"8886347"			
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		"9020153"	"9042556"	"9137602"			
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		"D279779"	"D293671"	"D301037"			
		"D304443"	"D313023"	"D313398"			
		"D313600"	"D320598"	"D322609"			
		"D326450"	"D327060"	"D331388"			
		"D333135"	"D350531"	"D350962"			
		"D354059"	"D354751"	"D356093"			
		"D356312"	"D357024"	"D362446"			
		"D363933"	"D364877"	"D364878"			
		"D365102"	"D366044"	"D372716"			

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S1599	148	S1598 and S1581	US-PGPUB; USPAT	OR	ON	2018/08/08 16:59
S1600	3	S1599 and S1587	US-PGPUB; USPAT	OR	ON	2018/08/08 16:59
S1601	415	("2004/0024478").URPN.	USPAT	OR	ON	2018/08/08 17:17
S1602	3	S1599 and S1601	USPAT	OR	ON	2018/08/08 17:21
S1603	1746053	(output pair$5 channel surround$4) with config$8 S1578 S1581	US-PGPUB; USPAT	OR	ON	2018/08/08 17:22
S1604	720	S1603 and (S1598 S1601)	US-PGPUB; USPAT	OR	ON	2018/08/08 17:22
S1605	344	S1603 and (S1601)	US-PGPUB; USPAT	OR	ON	2018/08/08 17:22
S1606	104	automat$6 near6 channel near3 (config$8 set$4 map$6) and (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2018/08/08 17:23
S1607	85	S1606 and S1603	US-PGPUB; USPAT	OR	ON	2018/08/08 17:24
S1608	65108	second near3 (speaker transducer loud$5speaker playback near2 device)	US-PGPUB; USPAT	OR	ON	2018/08/08 17:27
S1609	119610	(multiple multiplicity plural$4 additional subesq$7 second) near3 (speaker transducer loud$5speaker playback near2 device)	US-PGPUB; USPAT	OR	ON	2018/08/08 17:28
S1610	2408	(multiple multiplicity plural$4 additional subesq$7 second) near3 (speaker transducer loud$5speaker playback near2 device) and S1578	US-PGPUB; USPAT	OR	ON	2018/08/08 17:28

S1611	268	(multiple multiplicity plural$4 additional subesq$7 second) near3 (speaker transducer loud$5speaker playback near2 device) same S1578	US-PGPUB; USPAT	OR	ON	2018/08/08 17:28
S1612	8	("2015/0289124").URPN.	USPAT	OR	ON	2018/08/08 17:56
S1613	20186	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2018/08/08 18:08
S1614	150204	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR	US-PGPUB; USPAT	OR	ON	2018/08/08 18:10

		H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S1615	5992	S1614 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2018/08/08 18:10
S1616	12629	S1614 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2018/08/08 18:10
S1617	22	("20040196994" | "20040247144" | "20050147261" | "20050195995" | "20070030982" | "5500900" | "5622172" | "5751817" | "5802180" | "5943427" | "6118875" | "6498856" | "6990205" | "7116788" | "7174229" | "7590249").PN. OR ("8638946").URPN.	US-PGPUB; USPAT	OR	ON	2018/08/08 18:26
S1764	2566	active with audio with detect$6	US-PGPUB; USPAT	OR	ON	2018/08/22 12:21
S1765	197	S1764 and ((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:21
S1766	969440	(input audio) with (activat$6 detect$6)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:28
S1767	228	"s1262"	US-PGPUB; USPAT	OR	ON	2018/08/22 12:29
S1768	20344	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2018/08/22 12:29
S1769	20344	S1768	US-PGPUB; USPAT	OR	ON	2018/08/22 12:29
S1770	24	(scene config$6 zone network$4) with play$4 and play$5 with different near3	US-PGPUB;	OR	ON	2018/08/22 12:29

		(song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	USPAT			
S1771	24	S1770	US-PGPUB; USPAT	OR	ON	2018/08/22 12:29
S1772	10063	S1766 and ((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:29
S1773	824	S1766 and S1768 and ((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:31
S1774	530410	(input audio) with (activat$6 detect$6) same (output pair$5 channel surround$4)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:38
S1777	6402846	(zone snapshot snap adj shot grouping grouped groupwise scene configure configuration)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:52
S1778	2566	active with audio with detect$6	US-PGPUB; USPAT	OR	ON	2018/08/22 12:52
S1779	2566	S1778	US-PGPUB; USPAT	OR	ON	2018/08/22 12:52
S1780	197	S1778 and ((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:53
S1781	197	S1780	US-PGPUB; USPAT	OR	ON	2018/08/22 12:53
S1782	969440	(input audio) with (activat$6 detect$6)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:53
S1783	969440	S1782	US-PGPUB; USPAT	OR	ON	2018/08/22 12:53
S1784	228	"s1262"	US-PGPUB; USPAT	OR	ON	2018/08/22 12:53
S1785	228	S1784	US-PGPUB; USPAT	OR	ON	2018/08/22 12:53
S1786	20344	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2018/08/22 12:53
S1787	20344	S1786	US-PGPUB; USPAT	OR	ON	2018/08/22 12:53
S1788	228	S1784	US-PGPUB;	OR	ON	2018/08/22 12:53

			USPAT			
S1789	20344	S1786	US-PGPUB; USPAT	OR	ON	2018/08/22 12:54
S1790	20344	S1789	US-PGPUB; USPAT	OR	ON	2018/08/22 12:54
S1791	24	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:54
S1792	24	S1791	US-PGPUB; USPAT	OR	ON	2018/08/22 12:54
S1793	10063	S1782 and ((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:55
S1794	10063	S1793	US-PGPUB; USPAT	OR	ON	2018/08/22 12:55
S1795	824	S1782 and S1786 and ((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:55
S1796	824	S1795	US-PGPUB; USPAT	OR	ON	2018/08/22 12:55
S1797	530410	(input audio) with (activat$6 detect$6) same (output pair$5 channel surround$4)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:55
S1798	530410	S1797	US-PGPUB; USPAT	OR	ON	2018/08/22 12:55
S1799	530410	S1797	US-PGPUB; USPAT	OR	ON	2018/08/22 12:55
S1800	666516	S1777 and S1782	US-PGPUB; USPAT	OR	ON	2018/08/22 12:56
S1801	1105	S1786 and ((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/22 12:56
S1802	774	S1800 and S1801	US-PGPUB; USPAT	OR	ON	2018/08/22 12:56
S1803	0	("2018/0115825").URPN.	USPAT	OR	ON	2018/08/22 13:22
S1804	0	("2016/0253145").URPN.	USPAT	OR	ON	2018/08/22 13:22
S1805	28	("20050131558" | "20080109095" |	US-	OR	ON	2018/08/22

		"20100064218" | "20120096018" | "20120198339" | "20130132081" | "20130339031" | "20140095176" | "20140172953" | "20150081274" | "20150104037" | "20150139464" | "20150162006" | "20150170665" | "20150193193" | "20160034249" | "20160035352" | "20160210966" | "20160249437" | "20160295340" | "20160353217" | "20160379638" | "7643894" | "8725277" | "8874448" | "9087520" | "9271111" | "9484030").PN. OR ("9898250").URPN.	PGPUB; USPAT			13:22
S1806	66	("20010042107" | "20020022453" | "20020026442" | "20020124097" | "20030157951" | "20040024478" | "20070142944" | "20080152312" | "20090076881" | "20090179867" | "20090234476" | "20100017714" | "20100325239" | "20120054278" | "20130243199" | "20130317635" | "20130331970" | "20130339397" | "20140037107" | "20140093085" | "20140122590" | "20140146970" | "20140181659" | "20140230015" | "20140310058" | "20150179227" | "20150186110" | "20150237409" | "20150245138" | "20150286360" | "20160180248" | "5440644" | "5761320" | "5923902" | "6032202" | "6256554" | "6404811" | "6469633" | "6522886" | "6611537" | "6631410" | "6757517" | "6778869" | "7130608" | "7130616" | "7143939" | "7236773" | "7295548" | "7483538" | "7571014" | "7630501" | "7643894" | "7657910" | "7853341" | "7921369" | "7987294" | "8014423" | "8045952" | "8103009" | "8234395" | "8483853" | "8788080" | "8843500" | "8903526" | "9246866" | "9330096").PN.	US-PGPUB; USPAT	OR	ON	2018/08/22 13:42
S1807	1	("2015/0237409").URPN.	USPAT	OR	ON	2018/08/22 13:43
S1808	373	active with audio with detect$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2018/08/22 13:44
S1809	2333	activ$6 with audio with detect$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2018/08/22 13:44
S1810	969440	(input audio) with (activat$6 detect$6)".ab,clm.'"	US-PGPUB; USPAT	OR	ON	2018/08/22 13:44
S1811	255081	(input audio) with (activat$6 detect$6).ab,clm.	US-PGPUB; USPAT	OR	ON	2018/08/22 13:44
S1812	28	(zone snapshot snap adj shot grouping grouped groupwise scene configure configuration) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent	US-PGPUB; USPAT	OR	ON	2018/08/22 13:45

		sens$6 determin$6)				
S1813	21846	((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2018/08/22 13:45
S1814	49958	(line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6 activ$6)	US-PGPUB; USPAT	OR	ON	2018/08/22 13:47
S1815	5294	(line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6 activ$6).clm,ab.	US-PGPUB; USPAT	OR	ON	2018/08/22 13:47
S1816	157627	S1777 and S1811	US-PGPUB; USPAT	OR	ON	2018/08/22 13:47
S1817	3660	S1813 and S1811	US-PGPUB; USPAT	OR	ON	2018/08/22 13:47
S1818	127	S1777 and S1813 and S1814	US-PGPUB; USPAT	OR	ON	2018/08/22 13:48
S1819	8	S1813 and S1815	US-PGPUB; USPAT	OR	ON	2018/08/22 13:50
S1922	0	"Term Removed" and nickname	US-PGPUB; USPAT	OR	ON	2018/11/30 11:12
S1923	5	"Term Removed" and nickname	US-PGPUB; USPAT	OR	ON	2018/11/30 11:13
S1924	35	nicknam$4 same stereo	US-PGPUB; USPAT	OR	ON	2018/11/30 11:13
S1925	998	party near2 mode same (icon display$6 control$6 command$6) same$5speaker	US-PGPUB; USPAT	OR	ON	2018/11/30 11:15
S1926	101527	(second third nick) near2 nam$3 nick$name	US-PGPUB; USPAT	OR	ON	2018/11/30 11:16
S1927	46	S1925 and S1926	US-PGPUB; USPAT	OR	ON	2018/11/30 11:16
S1928	72	((second third nick) near2 nam$3 nick$name) same stereo	US-PGPUB; USPAT	OR	ON	2018/11/30 11:20
S1929	37	((second third nick) near2 nam$3 nick$name) same stereo not S1924	US-PGPUB; USPAT	OR	ON	2018/11/30 11:21
S1930	1	"Term Removed" and stereo	US-PGPUB; USPAT	OR	ON	2018/11/30 11:21
S1931	21326	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2018/11/30 11:50
S1932	7250	second near3 (speaker transducer loud$5speaker playback near2 device) same (stereo multi$6channel multi$4 adj	US-PGPUB; USPAT	OR	ON	2018/11/30 11:50

		channel pair$4)				
S1933	5840	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2018/11/30 11:50
S1934	5847	(zone scene config$9 snap$shot) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2018/11/30 11:50
S1935	225443	(zone scene config$9 snap$shot) with ($5speaker play$4)	US-PGPUB; USPAT	OR	ON	2018/11/30 11:51
S1936	5941	S1926 and S1935	US-PGPUB; USPAT	OR	ON	2018/11/30 12:17
S1937	1466	S1926 and S1935 and (stereo surround "5.1")	US-PGPUB; USPAT	OR	ON	2018/11/30 12:18
S1938	1	"20160342387"	US-PGPUB; USPAT	OR	ON	2018/11/30 12:18
S1939	52187	((G06F17/30026 OR G06F3/04842 OR G06F3/162 OR G06F3/165 OR G11B19/02 OR H04N21/4307 OR H04N21/43615 OR H04N21/43637 OR H04N21/4852 OR H04N21/8106 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04S2400/01 OR H04S2400/13 OR H04S3/008 OR H04S7/308).CPC.)	US-PGPUB; USPAT	OR	ON	2018/11/30 12:19
S1940	275	S1939 and S1937	US-PGPUB; USPAT	OR	ON	2018/11/30 12:19
S1941	2	S1937 and wachter.in.	US-PGPUB; USPAT	OR	ON	2018/11/30 12:22
S1942	553	group$6 and wachter.in.	US-PGPUB; USPAT	OR	ON	2018/11/30 12:24
S1943	2	group$6 and pinch and wachter.in.	US-PGPUB; USPAT	OR	ON	2018/11/30 12:24
S1944	9	("20080177822" | "20090179867" | "20110273380" | "20120121105" | "20120184335" | "20120274664" | "20130019193" | "20130080955" | "8290603").PN.	US-PGPUB; USPAT	OR	ON	2018/11/30 12:27
S1945	32	("2013/0080955").URPN.	USPAT	OR	ON	2018/11/30 12:35
S1946	347182	(scene config$6 zone network$4 snap$shot) with ($6speaker play$4)	US-PGPUB; USPAT	OR	ON	2018/11/30 13:02
S1947	413139	(scene config$6 zone network$4 snap$shot map$6 group$4) with ($6speaker play$4)	US-PGPUB; USPAT	OR	ON	2018/11/30 13:04
S1948	410155	(scene config$6 zone network$4 snap$shot map$3 group$5) with ($6speaker play$4)	US-PGPUB; USPAT	OR	ON	2018/11/30 13:05
S1949	347182	S1946 and S1947	US-	OR	ON	2018/11/30

			PGPUB; USPAT			13:05
S1984	22	"s1873"	US-PGPUB; USPAT	OR	ON	2019/01/04 17:12
S1985	227864	(zone scene config$9 snap$shot) with ($5speaker play$4)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:12
S1986	102325	(second third nick) near2 nam$3 nick$name	US-PGPUB; USPAT	OR	ON	2019/01/04 17:12
S1987	227864	(zone scene config$9 snap$shot) with ($5speaker play$4)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:12
S1988	6011	S1986 and S1987	US-PGPUB; USPAT	OR	ON	2019/01/04 17:12
S1989	6011	S1988	US-PGPUB; USPAT	OR	ON	2019/01/04 17:12
S1990	1483	S1986 and S1987 and (stereo surround "5.1")	US-PGPUB; USPAT	OR	ON	2019/01/04 17:16
S1991	1483	S1990	US-PGPUB; USPAT	OR	ON	2019/01/04 17:16
S1992	1	"20160342387"	US-PGPUB; USPAT	OR	ON	2019/01/04 17:16
S1993	1	S1992	US-PGPUB; USPAT	OR	ON	2019/01/04 17:16
S1994	52883	((G06F17/30026 OR G06F3/04842 OR G06F3/162 OR G06F3/165 OR G11B19/02 OR H04N21/4307 OR H04N21/43615 OR H04N21/43637 OR H04N21/4852 OR H04N21/8106 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04S2400/01 OR H04S2400/13 OR H04S3/008 OR H04S7/308).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:16
S1995	52883	S1994	US-PGPUB; USPAT	OR	ON	2019/01/04 17:16
S1996	283	S1994 and S1990	US-PGPUB; USPAT	OR	ON	2019/01/04 17:16
S1997	283	S1996	US-PGPUB; USPAT	OR	ON	2019/01/04 17:16
S1998	14369	($6zone scene configu$8 snap$shot) same (speaker transducer loud$3speaker) same (group$6 bus$4 sub$group$4 sub$mix$6) and ($6zone scene configu$8 snap$shot) near6 (display$5)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:17
S1999	14369	S1998	US-PGPUB;	OR	ON	2019/01/04 17:17

			USPAT			
S2000	1200	(zone scene config$9) with play$4 same (eq equal$9) same (smart intelligen$6 wireless$4 network$4 playback) near3 (player $6speaker device)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:17
S2001	4975	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:17
S2002	315	S2001 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:17
S2003	27	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:17
S2004	21659	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/01/04 17:17
S2005	63	S2004 and (S2001 S2002)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:25
S2006	27	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:27
S2007	27	S2006	US-PGPUB; USPAT	OR	ON	2019/01/04 17:27
S2008	27	S2007	US-PGPUB; USPAT	OR	ON	2019/01/04 17:27
S2009	999322	(input audio) with (activat$6 detect$6)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:27
S2010	10717	S2009 and ((G06F3/162 OR G06F3/165 OR H04R2227/005 OR H04R27/00 OR H04R3/12 OR H04R3/00 OR G11B27/10 OR H02B1/00 OR H03G3/10 OR H03G3/3026).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:27
S2011	10717	S2010	US-PGPUB; USPAT	OR	ON	2019/01/04 17:27
S2012	10717	S2010	US-PGPUB; USPAT	OR	ON	2019/01/04 17:28
S2013	10717	S2012	US-PGPUB; USPAT	OR	ON	2019/01/04 17:28
S2014	470	party near2 mode same (icon display$6 control$6 command$6) and $5speaker	US-PGPUB; USPAT	OR	ON	2019/01/04 17:28
S2015	470	S2014	US-PGPUB; USPAT	OR	ON	2019/01/04 17:28

S2016	477374	(bond$4 exclus$6 dynamic$6) with (zone scene config$8 snap$shot)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:36
S2017	2701530	(output pair$5 channel surround$4) with (kind type config$8)	US-PGPUB; USPAT	OR	ON	2019/01/04 17:37
S2018	21659	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/01/04 17:37
S2019	1	"8290603".pn. and apply	US-PGPUB; USPAT	OR	ON	2019/01/04 17:49
S2020	1	S2019	US-PGPUB; USPAT	OR	ON	2019/01/04 17:49
S2021	1009	party near2 mode same (icon display$6 control$6 command$6) same$5speaker	US-PGPUB; USPAT	OR	ON	2019/01/04 17:49
S2022	1009	S2021	US-PGPUB; USPAT	OR	ON	2019/01/04 17:49
S2023	1009	S2021	US-PGPUB; USPAT	OR	ON	2019/01/04 17:58
S2024	10	party near2 mode with (icon display$6 control$6 command$6) with $5speaker	US-PGPUB; USPAT	OR	ON	2019/01/04 17:58
S2025	10	S2024	US-PGPUB; USPAT	OR	ON	2019/01/04 17:58
S2026	20	party near2 mode with (icon display$6 control$6 command$6) same $5speaker	US-PGPUB; USPAT	OR	ON	2019/01/04 17:58
S2027	20	S2026	US-PGPUB; USPAT	OR	ON	2019/01/04 17:58
S2028	10	party near2 mode with (icon display$6 control$6 command$6) same $5speaker not S2024	US-PGPUB; USPAT	OR	ON	2019/01/04 17:59
S2029	10	S2028	US-PGPUB; USPAT	OR	ON	2019/01/04 17:59
S2030	10	party near2 mode with (icon display$6 control$6 command$6) same $5speaker not S2024 and party near2 mode	US-PGPUB; USPAT	OR	ON	2019/01/04 17:59
S2031	10	S2030	US-PGPUB; USPAT	OR	ON	2019/01/04 17:59
S2032	1	"8483853".pn.	US-PGPUB; USPAT	OR	ON	2019/01/04 17:59
S2033	1	S2032	US-PGPUB; USPAT	OR	ON	2019/01/04 17:59
S2034	3458	"s1509"	US-PGPUB; USPAT	OR	ON	2019/01/04 18:01

S2035	5749	"s1510"	US-PGPUB; USPAT	OR	ON	2019/01/04 18:01
S2036	49	baudino.in. and local	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2037	49	S2036	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2038	94737	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2039	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02

		G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR					

		H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2040	162655	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2041	162655	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2042	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02

		G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR				

		H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2043	287861	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02

		G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2044	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02

		G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR				

		G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2045	287861	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02

		G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2046	9225	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2047	4975	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2048	9225	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02

S2049	94737	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2050	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02

		G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2051	9225	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2052	287861	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02

		H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR				

		G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2053	462039	S2038 S2039 S2040 S2041 S2042 S2043 S2044 S2045 S2046 S2047 S2048 S2049 S2050 S2051 S2052	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2054	376490	S2053 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2055	18386	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2053	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2056	16247	S2054 and S2055	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2057	2869	S2056 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3 lfe) and wireless$4 and (stereo pair group$4) and pair$4	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2058	2869	S2057	US-PGPUB; USPAT	OR	ON	2019/01/04 18:02
S2059	16247	S2056	US-	OR	ON	2019/01/04

			PGPUB; USPAT			18:02
S2060	52818	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:04
S2061	9225	S2048	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2062	9225	S2046	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2063	94737	S2038	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2064	1870	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2065	1870	S2064	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2066	21659	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2067	21659	S2066	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2068	94737	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05

		OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2069	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05

		H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2070	162655	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2071	162655	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05

		G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S2072	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05

		G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2073	287861	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05

		H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR					

		G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2074	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05

		G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2075	287861	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05

		H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR					

		G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2076	9225	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2077	4975	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2078	9225	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2079	94737	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2080	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR	US-PGPUB;	OR	ON	2019/01/04 18:05

		G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR	USPAT				

		H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2081	9225	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2082	287861	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05

		OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2083	462039	S2068 S2069 S2070 S2071 S2072 S2073 S2074 S2075 S2076 S2077 S2078 S2079	US-PGPUB;	OR	ON	2019/01/04 18:05

		S2080 S2081 S2082	USPAT			
S2084	376490	S2083 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2085	376490	S2084	US-PGPUB; USPAT	OR	ON	2019/01/04 18:05
S2086	9225	S2078	US-PGPUB; USPAT	OR	ON	2019/01/04 18:17
S2087	4975	S2077	US-PGPUB; USPAT	OR	ON	2019/01/04 18:17
S2088	1129	"s1090"	US-PGPUB; USPAT	OR	ON	2019/01/04 18:18
S2089	155341	S2072	US-PGPUB; USPAT	OR	ON	2019/01/04 18:18
S2090	94737	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

S2091	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

		H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2092	162655	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2093	162655	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

		H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S2094	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

		H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2095	287861	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

		H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR					

		H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2096	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

		H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2097	287861	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

		H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR				

		H04W8/22).CPC.)				
S2098	9225	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2099	4975	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2100	9225	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2101	94737	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2102	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

		G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR					

		H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2103	9225	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2104	287861	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

		G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2105	462039	S2090 S2091 S2092 S2093 S2094 S2095 S2096 S2097 S2098 S2099 S2100 S2101 S2102 S2103 S2104	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2106	376490	S2105 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2107	18386	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2105	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

S2108	16247	S2106 and S2107	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2109	905	S2108 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3) and wireless$4 and (stereo pair group$4).ab,clm. and pair$4	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2110	155341	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25

		H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2111	7343	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2110	US-PGPUB; USPAT	OR	ON	2019/01/04 18:25
S2112	2683	active with audio with detect$6	US-PGPUB; USPAT	OR	ON	2019/01/04 18:26
S2113	73090	(digital$3 wireless$3 network$6 smart intellige$6 cognit$6) near3 (playback adj device $6speaker transducer monitor with audio)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:26
S2114	17	channel near3 map$6 same (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/01/04 18:31
S2115	1920308	(output pair$5 channel surround$4) with (zone scene snapshot config$8)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:31
S2116	781874	(output pair$5 channel surround$4) with (zone scene snapshot config$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:31
S2117	212928	(speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:32
S2118	212928	(speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:32
S2119	24977	S2116 and S2117	US-PGPUB; USPAT	OR	ON	2019/01/04 18:32
S2120	11	"Term Removed"	US-PGPUB; USPAT	OR	ON	2019/01/04 18:32
S2121	1	"20170223458"	US-PGPUB; USPAT	OR	ON	2019/01/04 18:37
S2122	2787	S2119 AND ((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR	US-PGPUB; USPAT	OR	ON	2019/01/04 18:38

		H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC.)				
S2123	798	S2116 and S2117 and (eq equaliz$9).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/01/04 18:38
S2124	3228	S2116 and S2117 and (eq equaliz$9)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:38
S2125	933	S2124 AND ((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2019/01/04 18:38
S2126	3	("2017/0099538").URPN.	USPAT	OR	ON	2019/01/04 18:43
S2127	0	("2015/0067511").URPN.	USPAT	OR	ON	2019/01/04 18:44
S2128	781874	(output pair$5 channel surround$4) with (zone scene snapshot config$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/01/05 11:41
S2129	781874	(output pair$5 channel surround$4) with (zone scene snapshot config$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/01/05 11:41
S2130	212928	(speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/01/05 11:41
S2131	3228	S2129 and S2130 and (eq equaliz$9)	US-PGPUB; USPAT	OR	ON	2019/01/05 11:41
S2132	798	S2129 and S2130 and (eq equaliz$9).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/01/05 11:41
S2133	3	("2013/0097510").URPN.	USPAT	OR	ON	2019/01/05 12:18
S2134	19	("20050069153" | "20050119879" | "20060004583" | "20070033021" | "20090316930" | "20110038490" | "20110096933" | "20110135103" | "20110137643" | "20110238426" | "20110274281" | "20110274292" | "20130096926" | "20130097510" | "20130114830" | "5406634" | "5572443" | "8077880" | "8194874").PN. OR ("9307322").URPN.	US-PGPUB; USPAT	OR	ON	2019/01/05 12:25
S2135	3	("2007/0033021").URPN.	USPAT	OR	ON	2019/01/05 12:27
S2136	53	("2006/0004583").URPN.	USPAT	OR	ON	2019/01/05 12:40
S2137	108	("2013/0028443").URPN.	USPAT	OR	ON	2019/01/05 12:41
S2139	1907	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/02/22 14:09
S2140	1907	S2139	US-PGPUB; USPAT	OR	ON	2019/02/22 14:09

S2141	96104	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/02/22 14:09
S2142	96104	S2141	US-PGPUB; USPAT	OR	ON	2019/02/22 14:09
S2143	22136	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/02/22 14:09
S2144	118	automat$6 near6 channel near3 (config$8 set$4 map$6) and (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/02/22 14:09
S2145	53602	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:11
S2146	92622	(scene config$6 zone network$4 snap$shot map$3 group$5) with ($6speaker play$4).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:12
S2147	96180	(scene config$6 zone network$4 snap$shot map$3 group$5 $6zone scene configu$8 set$4up snap$3shot cad) with	US-PGPUB; USPAT	OR	ON	2019/02/22 14:13

		($6speaker play$4).clm,ab.				
S2148	122164	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic $6speaker play$4).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:13
S2149	122148	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:13
S2150	326	automat$6 near6 channel near3 (config$8 set$4 map$6) and (smart intelligen$6 wireless$4 network$4 speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/02/22 14:15
S2151	32506	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6)	US-PGPUB; USPAT	OR	ON	2019/02/22 14:24
S2152	2394	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6).clm.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:26
S2153	2723	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:26
S2154	76	automat$6 near6 channel near3 (config$8 set$4 map$6) and (smart intelligen$6 wireless$4 network$4 speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) near3 $6speaker.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:26
S2155	20	S2150 and S2151	US-PGPUB; USPAT	OR	ON	2019/02/22 14:26
S2156	53602	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:29
S2157	136058	power near4 (optimiz$6 estimat$6)	US-PGPUB; USPAT	OR	ON	2019/02/22 14:29
S2158	36348	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same	US-PGPUB; USPAT	OR	ON	2019/02/22 14:31

		(relation$6 proportion$6 optim$8 config$6 group$6).clm,ab.				
S2159	167	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8 config$6 group$6) and 381/119.ccls.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:43
S2160	571	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8 config$6 group$6) and 381/119.ccls.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:43
S2161	1464	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8 config$6 group$6).ab,clm. and ("381".clas. 700/94.ccls.)	US-PGPUB; USPAT	OR	ON	2019/02/22 14:44
S2162	1464	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8 config$6 group$6).ab,clm. and ("381".clas. 700/94.ccls.)	US-PGPUB; USPAT	OR	ON	2019/02/22 14:45
S2163	225	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8 config$6 group$6).ab,clm. and 381/119.ccls.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:46
S2164	0	S2154 and S2163	US-PGPUB; USPAT	OR	ON	2019/02/22 14:46
S2165	31	S2148 and S2163	US-PGPUB; USPAT	OR	ON	2019/02/22 14:46
S2166	128	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (config$6 group$6).ab,clm. and 381/119.ccls.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:47
S2167	1045	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (config$6 group$6).ab,clm. and ("381".clas. 700/94.ccls.)	US-PGPUB; USPAT	OR	ON	2019/02/22 14:48
S2168	358	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (config$6 group$6).ab,clm. and ("381".clas. 700/94.ccls.) and S2148	US-PGPUB; USPAT	OR	ON	2019/02/22 14:48
S2169	47953	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (config$6 group$6).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/02/22 14:50
S2170	59474	("381".clas. 700/94.ccls.)	US-PGPUB; USPAT	OR	ON	2019/02/22 14:51

S2171	312	S2169 and S2170	US-PGPUB; USPAT	OR	ON	2019/02/22 15:04
S2172	28	("2015/0223002").URPN.	USPAT	OR	ON	2019/02/22 15:05
S2173	96104	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09
S2174	155277	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09

		G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2175	152826	((G11B27/105 OR G11B2220/61 OR	US-	OR	ON	2019/02/22

		G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	PGPUB; USPAT			15:09
S2176	152826	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09
S2177	155277	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09

		G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR				

		H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2178	288619	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09

		G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2179	155277	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09

		G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR					

		H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2180	288619	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09

		G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2181	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09
S2182	5012	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09
S2183	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09
S2184	96104	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09

		G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2185	155277	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09

		OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2186	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09
S2187	288619	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09

		H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR				

		H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2188	456352	S2173 S2174 S2175 S2176 S2177 S2178 S2179 S2180 S2181 S2182 S2183 S2184 S2185 S2186 S2187	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09
S2189	18243	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2188	US-PGPUB; USPAT	OR	ON	2019/02/22 15:09
S2190	3191	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2188 and S2170	US-PGPUB; USPAT	OR	ON	2019/02/22 15:35
S2191	37788	S2188 and S2170	US-PGPUB; USPAT	OR	ON	2019/02/22 15:35
S2192	313789	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (config$6 group$6)	US-PGPUB; USPAT	OR	ON	2019/02/22 15:35
S2193	5592	S2188 and S2169	US-PGPUB; USPAT	OR	ON	2019/02/22 15:36
S2194	273	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2188 and S2169	US-PGPUB; USPAT	OR	ON	2019/02/22 15:36
S2195	722	S2149 and S2188 and S2169	US-PGPUB;	OR	ON	2019/02/22 15:36

			USPAT			
S2196	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/02/22 16:42
S2197	62985	704/500-502.ccls. 700/94.ccls. "381".clas.	US-PGPUB; USPAT	OR	ON	2019/02/22 16:42
S2198	41299	S2188 and S2197	US-PGPUB; USPAT	OR	ON	2019/02/22 16:42
S2199	3261	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2198	US-PGPUB; USPAT	OR	ON	2019/02/22 16:42
S2200	1272	S2188 and "323" and S2198	US-PGPUB; USPAT	OR	ON	2019/02/22 16:43
S2201	294	S2188 and S2169 and S2198	US-PGPUB; USPAT	OR	ON	2019/02/22 16:43
S2202	5617	(S2197 S2188) and S2169	US-PGPUB; USPAT	OR	ON	2019/02/22 16:47
S2203	47953	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (config$6 group$6).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/02/22 16:47
S2204	18997	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8).ab,clm. and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (config$6 group$6)	US-PGPUB; USPAT	OR	ON	2019/02/22 16:47
S2205	64317	704/226,500-502.ccls. 700/94.ccls. "381".clas.	US-PGPUB; USPAT	OR	ON	2019/02/22 16:49
S2206	38783	differen$6 near3 score	US-PGPUB; USPAT	OR	ON	2019/02/25 09:07
S2207	647	out near3 vocabulary and (includ$4 in) near3 vocabulary	US-PGPUB; USPAT	OR	ON	2019/02/25 09:08
S2208	508	(oov out near3 vocabulary) and (IV (includ$4 in) near3 vocabulary) and phras$7	US-PGPUB; USPAT	OR	ON	2019/02/25 09:08
S2209	455	(oov out near3 vocabulary) and (IV (includ$4 in) near3 vocabulary) and phras$7 and (featur$6)	US-PGPUB; USPAT	OR	ON	2019/02/25 09:09
S2210	84	(oov out near3 vocabulary) and (IV (includ$4 in) near3 vocabulary) and phras$7 and (featur$6 near4 vector)	US-PGPUB; USPAT	OR	ON	2019/02/25 09:09
S2215	83529	((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR	US-PGPUB; USPAT	OR	ON	2019/03/01 16:41

		H04R29/008 OR H04S7/00 OR H04S7/30).CPC. OR (700/94).CCLS.)				
S2216	0	S2215 with volume near3 adjust$6	US-PGPUB; USPAT	OR	ON	2019/03/01 16:41
S2217	0	S2215 with volume near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/01 16:41
S2218	6886	S2215 and volume near3 adjust$6	US-PGPUB; USPAT	OR	ON	2019/03/01 16:42
S2219	925	S2215 and volume near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/01 16:42
S2220	2418	S2218 and (sync synchron$9)	US-PGPUB; USPAT	OR	ON	2019/03/01 16:42
S2221	276	S2219 and (sync synchron$9)	US-PGPUB; USPAT	OR	ON	2019/03/01 16:42
S2222	84	S2219 and (sync synchron$9).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/01 16:42
S2223	84286	((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC. OR (700/94 381/119 715/1716).CCLS.)	US-PGPUB; USPAT	OR	ON	2019/03/01 16:47
S2224	7045	S2223 and volume near3 adjust$6	US-PGPUB; USPAT	OR	ON	2019/03/01 16:47
S2225	969	S2223 and volume near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/01 16:47
S2226	2466	S2224 and (sync synchron$9)	US-PGPUB; USPAT	OR	ON	2019/03/01 16:47
S2227	290	S2225 and (sync synchron$9)	US-PGPUB; USPAT	OR	ON	2019/03/01 16:47
S2228	88	S2225 and (sync synchron$9).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/01 16:47
S2229	4	S2228 not S2222	US-PGPUB; USPAT	OR	ON	2019/03/01 16:48
S2230	2	("5737485" "5493540").pn.	US-PGPUB; USPAT	OR	ON	2019/03/03 14:14
S2231	72	("5737485" "5493540")	US-PGPUB; USPAT	OR	ON	2019/03/03 14:14
S2232	1588775	(train$6 learn$6 neural)	US-PGPUB;	OR	ON	2019/03/03 14:14

			USPAT			
S2233	64	S2231 and S2232	US-PGPUB; USPAT	OR	ON	2019/03/03 14:14
S2234	22355	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2235	22355	S2234	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2236	798725	(output pair$5 channel surround$4) with (zone scene snapshot config$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2237	215571	(speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2238	25617	S2236 and S2237	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2239	25617	S2238	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2240	96872	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59

		G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2241	156185	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59

		H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2242	153592	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2243	153592	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59

		G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S2244	156185	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59

		H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2245	290900	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59

		H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR				

		H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2246	156185	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59

		H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2247	290900	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59

		H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR					

		H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2248	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2249	5050	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2250	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2251	96872	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2252	156185	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59

		G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR				

		G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2253	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2254	290900	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59

		G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2255	459201	S2240 S2241 S2242 S2243 S2244 S2245 S2246 S2247 S2248 S2249 S2250 S2251 S2252 S2253 S2254	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2256	374433	S2255 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59

S2257	374433	S2256	US-PGPUB; USPAT	OR	ON	2019/03/20 09:59
S2258	48351	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (config$6 group$6).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2259	96872	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2260	156185	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01

		G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR					

		H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2261	153592	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2262	153592	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2263	156185	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01

		G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR				

		H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2264	290900	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01

		G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2265	156185	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01

		G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR				

		G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2266	290900	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01

		G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2267	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2268	5050	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2269	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01

S2270	96872	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2271	156185	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01

		G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2272	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2273	290900	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01

		H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR					

		G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2274	459201	S2259 S2260 S2261 S2262 S2263 S2264 S2265 S2266 S2267 S2268 S2269 S2270 S2271 S2272 S2273	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2275	275	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2274 and S2258	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2276	275	S2275	US-PGPUB; USPAT	OR	ON	2019/03/20 10:01
S2277	84164	((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2019/03/20 10:02
S2278	935	S2277 and volume near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:02

S2279	87	S2278 and (sync synchron$9).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:02
S2280	8	automat$6 near6 channel near3 map$6 and (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/03/20 10:03
S2281	153592	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/03/20 10:04
S2282	6076	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/03/20 10:04
S2283	2360	second near3 play$5 near4 (media song title) and S2281	US-PGPUB; USPAT	OR	ON	2019/03/20 10:04
S2284	561	S2282 and S2283	US-PGPUB; USPAT	OR	ON	2019/03/20 10:04
S2285	156185	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR	US-PGPUB; USPAT	OR	ON	2019/03/20 10:04

		G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2286	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:04
S2287	5855	S2285 and S2286	US-	OR	ON	2019/03/20

			PGPUB; USPAT			10:04
S2288	60	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S2287	US-PGPUB; USPAT	OR	ON	2019/03/20 10:04
S2289	935	S2277 and volume near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:54
S2290	1	"Term Removed" and volume.ti.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:54
S2291	84921	(700/94 381/119).ccls. ((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2019/03/20 10:55
S2292	855	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S2291	US-PGPUB; USPAT	OR	ON	2019/03/20 10:55
S2293	67	S2292 and volume near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:56
S2294	94	S2292 and (gain level setting volume) near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/20 10:56
S2295	1168	S2291 and (proportion$6 averag$4) and (gain level setting volume) near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/20 11:00
S2296	614	S2291 and (proportion$6 averag$4) near11 (gain level setting volume) and (gain level setting volume) near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/03/20 11:00
S2297	62	S2291 and (proportion$6 averag$4) near11 (gain level setting volume) and (gain level setting volume) near3 adjust$6.ab,clm. and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2019/03/20 11:01
S2298	36	S2291 and (proportion$6 averag$4) near11 (gain level setting volume) with adjust$6 and (gain level setting volume) near3 adjust$6.ab,clm. and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2019/03/20 11:02
S2299	28	group$4 with (proportion$6 averag$4) near11 (gain level setting volume) with adjust$6 and (gain level setting volume) near3 adjust$6.ab,clm. and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2019/03/20 11:03
S2300	0	S2298 and S2299	US-PGPUB; USPAT	OR	ON	2019/03/20 11:03
S2301	27	S2291 and (proportion$6 averag$4) near11 (gain level setting volume) with adjust$6 and (gain level setting volume) near3 adjust$6.ab,clm. and @ad<="20030728" and group$6	US-PGPUB; USPAT	OR	ON	2019/03/20 11:03

S2302	70874	(digital wireless network$6) near3 (playback adj device $6speaker transducer)	US-PGPUB; USPAT	OR	ON	2019/05/24 14:38
S2303	39758	"2203"	US-PGPUB; USPAT	OR	ON	2019/05/24 14:38
S2309	2834	active with audio with detect$6	US-PGPUB; USPAT	OR	ON	2019/05/24 15:20
S2310	2834	S2309	US-PGPUB; USPAT	OR	ON	2019/05/24 15:20
S2311	76717	(digital$3 wireless$3 network$6 smart intellige$6 cognit$6) near3 (playback adj device $6speaker transducer monitor with audio)	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2312	76717	S2311	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2313	19	channel near3 map$6 same (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2314	19	S2313	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2315	1996633	(output pair$5 channel surround$4) with (zone scene snapshot config$8)	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2316	1996633	S2315	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2317	815239	(output pair$5 channel surround$4) with (zone scene snapshot config$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2318	218212	(speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2319	26224	S2317 and S2318	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2320	26224	S2319	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2321	815239	(output pair$5 channel surround$4) with (zone scene snapshot config$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2322	218212	(speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2323	837	S2321 and S2322 and (eq equaliz$9).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2324	837	S2323	US-PGPUB; USPAT	OR	ON	2019/05/24 15:21
S2325	1983	zone with play$4 and play$5 with different near3 (song media content) and	US-PGPUB;	OR	ON	2019/05/24 15:25

		(sync synchron$8)	USPAT			
S2326	1983	S2325	US-PGPUB; USPAT	OR	ON	2019/05/24 15:25
S2327	22994	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/05/24 15:26
S2328	22994	S2327	US-PGPUB; USPAT	OR	ON	2019/05/24 15:26
S2329	120	automat$6 near6 channel near3 (config$8 set$4 map$6) and (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/05/24 15:26
S2330	120	S2329	US-PGPUB; USPAT	OR	ON	2019/05/24 15:26
S2331	55310	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:28
S2332	55310	S2331	US-PGPUB; USPAT	OR	ON	2019/05/24 15:28
S2333	94800	(scene config$6 zone network$4 snap$shot map$3 group$5) with ($6speaker play$4).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:28
S2334	94800	S2333	US-PGPUB; USPAT	OR	ON	2019/05/24 15:28
S2335	98391	(scene config$6 zone network$4 snap$shot map$3 group$5 $6zone scene configu$8 set$4up snap$3shot cad) with ($6speaker play$4).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:45
S2336	98391	S2335	US-PGPUB; USPAT	OR	ON	2019/05/24 15:45
S2337	125119	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic $6speaker play$4).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:45
S2338	125119	S2337	US-PGPUB; USPAT	OR	ON	2019/05/24 15:45
S2339	125102	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:45
S2340	125102	S2339	US-PGPUB; USPAT	OR	ON	2019/05/24 15:45
S2341	331	automat$6 near6 channel near3 (config$8 set$4 map$6) and (smart intelligen$6 wireless$4 network$4 speaker transducer loud$5speaker playback near2 devic$6 speaker play$4)	US-PGPUB; USPAT	OR	ON	2019/05/24 15:46

		near3 $6speaker				
S2342	331	S2341	US-PGPUB; USPAT	OR	ON	2019/05/24 15:46
S2343	33559	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6)	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2344	33559	S2343	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2345	2451	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6).clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2346	2451	S2345	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2347	2789	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2348	2789	S2347	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2349	77	automat$6 near6 channel near3 (config$8 set$4 map$6) and (smart intelligen$6 wireless$4 network$4 speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) near3 $6speaker.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2350	77	S2349	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2351	20	S2341 and S2343	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2352	20	S2351	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2353	55310	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker playback near2 device).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2354	55310	S2353	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2355	139176	power near4 (optimiz$6 estimat$6)	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47

S2356	139176	S2355	US-PGPUB; USPAT	OR	ON	2019/05/24 15:47
S2357	55310	S2353	US-PGPUB; USPAT	OR	ON	2019/05/24 15:59
S2358	139176	S2355	US-PGPUB; USPAT	OR	ON	2019/05/24 15:59
S2359	37640	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) and (mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8 config$6 group$6).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/05/24 15:59
S2360	37640	S2359	US-PGPUB; USPAT	OR	ON	2019/05/24 15:59
S2361	98810	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/05/24 15:59

S2362	158664	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR	US-PGPUB; USPAT	OR	ON	2019/05/24 16:00

		H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2363	158664	S2362	US-PGPUB; USPAT	OR	ON	2019/05/24 16:00
S2364	155701	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/05/24 16:00
S2365	155701	S2364	US-PGPUB; USPAT	OR	ON	2019/05/24 16:00
S2366	155701	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04

		G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S2367	155701	S2366	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04
S2368	0	"s21773"	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04
S2369	158664	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04

		G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2370	158664	S2369	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04
S2371	296203	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04

		H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR				

		H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2372	296203	S2371	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04
S2373	158664	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04

		G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2374	158664	S2373	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04
S2375	296203	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04

		H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR				

		H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2376	296203	S2375	US-PGPUB; USPAT	OR	ON	2019/05/24 16:04
S2377	9224	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:13
S2378	9224	S2377	US-PGPUB; USPAT	OR	ON	2019/05/24 16:13
S2379	5111	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/05/24 16:13
S2380	5111	S2379	US-PGPUB; USPAT	OR	ON	2019/05/24 16:13
S2381	62969	"381".clas. 704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:13
S2382	9224	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14
S2383	98810	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14

		H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2384	158664	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14

		OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2385	9224	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14
S2386	296203	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14

		H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR				

		H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2387	465927	S2361 S2362 S2364 S2366 S2369 S2371 S2373 S2375 S2377 S2379 S2382 S2383 S2384 S2385 S2386	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14
S2388	465927	S2387	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14
S2389	59458	("381".clas. 700/94.ccls.)	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14
S2390	3191	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2387 and S2389	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14
S2391	3191	S2390	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14
S2392	37671	S2387 and S2389	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14
S2393	37671	S2392	US-PGPUB; USPAT	OR	ON	2019/05/24 16:14
S2394	321605	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (config$6 group$6)	US-PGPUB; USPAT	OR	ON	2019/05/24 16:17
S2395	321605	S2394	US-PGPUB; USPAT	OR	ON	2019/05/24 16:17
S2396	62969	704/500-502.ccls. 700/94.ccls. "381".clas.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:17
S2397	41182	S2387 and S2396	US-PGPUB; USPAT	OR	ON	2019/05/24 16:17

S2398	41182	S2397	US-PGPUB; USPAT	OR	ON	2019/05/24 16:17
S2399	64301	704/226,500-502.ccls. 700/94.ccls. "381".clas.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:18
S2400	64301	S2399	US-PGPUB; USPAT	OR	ON	2019/05/24 16:18
S2401	86839	((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC. OR (700/94).CCLS.)	US-PGPUB; USPAT	OR	ON	2019/05/24 16:18
S2402	0	S2401 with volume near3 adjust$6	US-PGPUB; USPAT	OR	ON	2019/05/24 16:18
S2403	0	S2402	US-PGPUB; USPAT	OR	ON	2019/05/24 16:18
S2404	0	S2401 with volume near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:18
S2405	0	S2404	US-PGPUB; USPAT	OR	ON	2019/05/24 16:18
S2406	0	S2402	US-PGPUB; USPAT	OR	ON	2019/05/24 16:21
S2407	86839	S2401	US-PGPUB; USPAT	OR	ON	2019/05/24 16:21
S2408	0	S2402	US-PGPUB; USPAT	OR	ON	2019/05/24 16:21
S2409	7166	S2401 and volume near3 adjust$6	US-PGPUB; USPAT	OR	ON	2019/05/24 16:21
S2410	7166	S2409	US-PGPUB; USPAT	OR	ON	2019/05/24 16:21
S2411	956	S2401 and volume near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:21
S2412	956	S2411	US-PGPUB; USPAT	OR	ON	2019/05/24 16:21
S2413	2532	S2409 and (sync synchron$9)	US-PGPUB; USPAT	OR	ON	2019/05/24 16:21
S2414	2532	S2413	US-PGPUB; USPAT	OR	ON	2019/05/24 16:21
S2415	289	S2411 and (sync synchron$9)	US-PGPUB;	OR	ON	2019/05/24 16:22

			USPAT			
S2416	289	S2415	US-PGPUB; USPAT	OR	ON	2019/05/24 16:22
S2417	89	S2411 and (sync synchron$9).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:22
S2418	89	S2417	US-PGPUB; USPAT	OR	ON	2019/05/24 16:22
S2419	87595	((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC. OR (700/94 381/119 715/1716).CCLS.)	US-PGPUB; USPAT	OR	ON	2019/05/24 16:31
S2420	7324	S2419 and volume near3 adjust$6	US-PGPUB; USPAT	OR	ON	2019/05/24 16:31
S2421	7324	S2420	US-PGPUB; USPAT	OR	ON	2019/05/24 16:31
S2422	1000	S2419 and volume near3 adjust$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:31
S2423	1000	S2422	US-PGPUB; USPAT	OR	ON	2019/05/24 16:31
S2424	815239	(output pair$5 channel surround$4) with (zone scene snapshot config$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:31
S2425	218212	(speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:31
S2426	26224	S2424 and S2425	US-PGPUB; USPAT	OR	ON	2019/05/24 16:31
S2427	26224	S2426	US-PGPUB; USPAT	OR	ON	2019/05/24 16:31
S2428	17650	S2419 and (gain level amplitude volume).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/05/24 16:32
S2429	865	S2424 and S2425 and S2428	US-PGPUB; USPAT	OR	ON	2019/05/24 16:32
S2430	9	automat$6 near6 channel near3 map$6 and (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/05/24 16:34
S2431	0	S2429 and S2430	US-PGPUB; USPAT	OR	ON	2019/05/24 16:34
S2432	1	"Term Removed" and kallai	US-PGPUB; USPAT	OR	ON	2019/05/24 16:40

S2433	72915	700/94.ccls. "381".clas. ((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2019/05/24 16:40
S2434	1996633	(output pair$5 channel surround$4) with (zone scene snapshot config$8)".clm,ab.125" and S2424	US-PGPUB; USPAT	OR	ON	2019/05/24 16:41
S2435	17559	"177" and S2424	US-PGPUB; USPAT	OR	ON	2019/05/24 16:41
S2436	815392	45and S2424	US-PGPUB; USPAT	OR	ON	2019/05/24 16:42
S2437	19206	S2353 and S2424	US-PGPUB; USPAT	OR	ON	2019/05/24 16:42
S2438	865	S2429 and S2424	US-PGPUB; USPAT	OR	ON	2019/05/24 16:42
S2439	766	S2438 and S2433	US-PGPUB; USPAT	OR	ON	2019/05/24 16:43
S2440	1983	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/05/24 16:44
S2441	24	S2438 and S2440	US-PGPUB; USPAT	OR	ON	2019/05/24 16:44
S2442	302338	(song media content audio sound) same (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/05/24 16:45
S2443	228	S2438 and S2442	US-PGPUB; USPAT	OR	ON	2019/05/24 16:45
S2444	28	group$4 with (proportion$6 averag$4) near11 (gain level setting volume) with adjust$6 and (gain level setting volume) near3 adjust$6.ab,clm. and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2019/06/06 17:53
S2445	88051	(700/94 381/119).ccls. ((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2019/06/06 17:53
S2446	36	S2445 and (proportion$6 averag$4) near11 (gain level setting volume) with adjust$6 and (gain level setting volume) near3 adjust$6.ab,clm. and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2019/06/06 17:53
S2447	28	group$4 with (proportion$6 averag$4) near11 (gain level setting volume) with adjust$6 and (gain level setting volume)	US-PGPUB; USPAT	OR	ON	2019/06/06 17:53

		near3 adjust$6.ab,clm. and @ad<="20030728"				
S2448	0	S2446 and S2447	US-PGPUB; USPAT	OR	ON	2019/06/06 17:53
S2449	0	S2448	US-PGPUB; USPAT	OR	ON	2019/06/06 17:53
S2450	13	"Term Removed"	US-PGPUB; USPAT	OR	ON	2019/06/06 17:53
S2451	1	"Term Removed" and kallai	US-PGPUB; USPAT	OR	ON	2019/06/06 17:53
S2452	27	S2445 and (proportion$6 averag$4) near11 (gain level setting volume) with adjust$6 and (gain level setting volume) near3 adjust$6.ab,clm. and @ad<="20030728" and group$6	US-PGPUB; USPAT	OR	ON	2019/06/06 18:00
S2453	27	S2452	US-PGPUB; USPAT	OR	ON	2019/06/06 18:00
S2454	3016	"s2305"	US-PGPUB; USPAT	OR	ON	2019/06/06 18:00
S2455	71174	(digital wireless network$6) near3 (playback adj device $6speaker transducer)	US-PGPUB; USPAT	OR	ON	2019/06/06 18:00
S2456	71174	S2455	US-PGPUB; USPAT	OR	ON	2019/06/06 18:00
S2457	19	channel near3 map$6 same (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/06/06 18:00
S2458	19	S2457	US-PGPUB; USPAT	OR	ON	2019/06/06 18:00
S2459	99184	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01

		H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2460	159102	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01

		G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2461	156069	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01
S2462	156069	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR	US-PGPUB;	OR	ON	2019/06/06 18:01

		G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	USPAT			
S2463	159102	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01

		OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2464	297417	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01

		H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR				

		H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2465	159102	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01

		G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2466	297417	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01

		H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR				

		H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2467	9224	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01
S2468	5115	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01
S2469	9224	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01
S2470	99184	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01

		OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2471	159102	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01

		H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2472	9224	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01
S2473	297417	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01

		H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR				

		G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2474	467389	S2459 S2460 S2461 S2462 S2463 S2464 S2465 S2466 S2467 S2468 S2469 S2470 S2471 S2472 S2473	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01
S2475	382391	S2474 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01
S2476	18971	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2474	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01
S2477	16835	S2475 and S2476	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01
S2478	320	S2477 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3) and wireless$4 and (stereo pair group$4).ab. and pair$4	US-PGPUB; USPAT	OR	ON	2019/06/06 18:01
S2481	9224	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2482	9224	S2481	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2483	156141	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2484	5119	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48

S2485	315	S2484 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2486	13578	(output pair$5 channel surround$4) with config$8 and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2487	1761	(S2483 S2485) and S2486	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2488	14957	S2487 "s87"	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2489	159217	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48

		G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2490	6856	S2489 and ($6zone scene configu$8) and (speaker transducer loud$3speaker).ab.	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2491	6856	S2490	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2492	156141	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2493	6234	(zone scene config$9) with play$4 and	US-	OR	ON	2019/06/06

		play$5 with different near3 (song media content) and (sync synchron$8)	PGPUB; USPAT			19:48
S2494	2407	second near3 play$5 near4 (media song title) and S2492	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2495	581	S2493 and S2494	US-PGPUB; USPAT	OR	ON	2019/06/06 19:48
S2496	15307	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/06/06 19:51
S2497	500	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab. and (S2484 S2485)	US-PGPUB; USPAT	OR	ON	2019/06/06 19:54
S2498	1049	S2495 S2497	US-PGPUB; USPAT	OR	ON	2019/06/06 19:57
S2499	32	S2495 and S2497	US-PGPUB; USPAT	OR	ON	2019/06/06 19:57
S2500	99266	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02

		G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2501	159217	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02

		H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2502	156141	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2503	156141	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02

		G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S2504	159217	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02

		H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2505	297684	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02

		H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR					

		H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2506	159217	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02

		H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2507	297684	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02

		H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR					

		H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2508	9224	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2509	5119	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2510	9224	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2511	99266	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2512	159217	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02

		G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR				

		H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2513	9224	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2514	297684	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02

		G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2515	467719	S2500 S2501 S2502 S2503 S2504 S2505 S2506 S2507 S2508 S2509 S2510 S2511 S2512 S2513 S2514	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2516	382706	S2515 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2517	18990	(digital wireless network$6) near3	US-	OR	ON	2019/06/06

		(playback adj device $6speaker transducer) and S2515	PGPUB; USPAT			20:02
S2518	16854	S2516 and S2517	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2519	3057	S2518 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3 lfe) and wireless$4 and (stereo pair group$4) and pair$4	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2520	1106	((G06F3/165 OR H03G3/20 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S7/30).CPC. and (700/94 381/107).CCLS.)	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2521	90	S2519 and S2520	US-PGPUB; USPAT	OR	ON	2019/06/06 20:02
S2522	55979	($6zone scene configu$8 set$4up snap$3shot cad config$8 schem$3) same (speaker transducer loud$5speaker playback near2 device).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/06/06 20:06
S2523	159	("2005/0131558").URPN.	USPAT	OR	ON	2019/06/06 20:11
S2524	9	("20030004724" | "20030198254" | "20030198255" | "20040205204" | "20050131558" | "20050254662" | "20060002681" | "20060013407" | "20080155616").PN.	US-PGPUB; USPAT	OR	ON	2019/06/06 20:18
S2525	112	("2006/0002681").URPN.	USPAT	OR	ON	2019/06/06 20:19
S2526	7458	(output pair$5 channel surround$4) with (set$6 config$8 map$5 group$6 scene zone schem$2).clm,ab. and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/06/06 20:21
S2527	1394	(output pair$5 channel surround$4) with (set$6 config$8 map$5 group$6 scene zone schem$2).clm,ab. and (play$5 network$6) near3 (device $6speak$6) same (sync synch$3 synchroni$9).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/06/06 20:22
S2533	1	"20190014413"	US-PGPUB; USPAT	OR	ON	2019/06/07 08:31
S2534	200	("20050159833" | "20050160270" | "20050166135" | "20050168630" | "20050177256" | "20050177643" | "20050181348" | "20050195205" | "20050195823" | "20050197725" | "20050198574" | "20050201549" | "20050216556" | "20050254505" | "20050262217" | "20050266798" | "20050266826" | "20050281255" | "20050283820" | "20050288805" | "20050289224" | "20050289244" | "20060041616" | "20060041639" | "20060045281" | "20060072489" | "20060095516" | "20060098936" | "20060119497" | "20060143236" | "20060149402" | "20060155721" |	US-PGPUB; USPAT	OR	ON	2019/06/07 08:32

		"20060173844"	"20060179160"					
		"20060193454"	"20060193482"					
		"20060199538"	"20060205349"					
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		"20060229752"	"20060259649"					
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		"20070142022"	"20070142944"					
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		"20070192156"	"20070206829"					
		"20070223725"	"20070249295"					
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		"20080025535"	"20080045140"					
		"20080065232"	"20080066094"					
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		"20080092204"	"20080120429"					
		"20080126943"	"20080144861"					
		"20080144864"	"20080146289"					
		"20080152165"	"20080159545"					
		"20080162668"	"20080189272"					
		"20080205070"	"20080212786"					
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		"20110002487"	"20110044476"					
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		"20120237054"	"20120263325"					
		"20120281058"	"20120290621"					

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		"5832024" | "5848152" | "5852722" | "5867691" | "5875233" | "5875354" | "5887143" | "5905768" | "5910991" | "5923869" | "5923902" | "5946343" | "5956025" | "5956088" | "5960006" | "5984512" | "5987611" | "5990884" | "5991307" | "5999906" | "6009457" | "6018376" | "6026150" | "6029196" | "6031818" | "6032202" | "6038614" | "6046550" | "6061457" | "6078725" | "6081266" | "6088063" | "6101195" | "6108485" | "6108686" | "6122668" | "6127941" | "6128318" | "6148205" | "6157957" | "6163647" | "6169725" | "6175872" | "6181383" | "6185737" | "6195435" | "6195436" | "6199169" | "6212282" | "6246701" | "6253293" | "6255961" | "6256554" | "6269406" | "6301012" | "6308207" | "6310652" | "6313879" | "6321252" | "6324586" | "6332147" | "6343028" | "6349285" | "6349339" | "6351821" | "6353172" | "6356871" | "6404811" | "6418150" | "6430353" | "6442443" | "6449642" | "6449653" | "6456783" | "6463474" | "6466832" | "6469633" | "6487296" | "6493832" | "6522886" | "6526325" | "6535121" | "6587127" | "6598172" | "6604023" | "6611537" | "6631410" | "6636269" | "6653899" | "6654720" | "6654956" | "6658091" | "6674803" | "6684060" | "6687664" | "6704421" | "6741961" | "6757517" | "6763274" | "6778073" | "6778493" | "6778869" | "6803964" | "6809635" | "6816510" | "6816818" | "6823225" | "6826283" | "6836788" | "6839752" | "6859460" | "6859538" | "6873862" | "6882335" | "6889207" | "6898642" | "6901439" | "6907458" | "6912610" | "6915347" | "6916980" | "6917592" | "6919771" | "6920373" | "6931134" | "6931557" | "6934766" | "6937988" | "6970482" | "6985694" | "6987767" | "6987947" | "7007106" | "7020791" | "7043477" | "7043651" | "7046677" | "7047308" | "7054888" | "7058889" | "7068596" | "7072477" | "7092528" | "7092694" | "7096169" | "7113999" | "7115017" | "7120168" | "7130316" | "7130368" | "7130608" | "7130616").PN.				
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		"7359006"	"7366206"	"7372846"			
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		"7702279"	"7702403"	"7710941"			
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		"20040171346"	"20040177167"					
		"20040179554"	"20040183827"					

		"20040185773" | "20040203354" | "20040203378" | "20040203590" | "20040208158" | "20040213230" | "20040220687" | "20040223622" | "20040224638" | "20040225389" | "20040228367" | "20040248601" | "20040249490" | "20040249965" | "20040249982" | "20040252400" | "20040253969" | "20050002535" | "20050010691" | "20050011388" | "20050013394" | "20050015551" | "20050021470" | "20050021590" | "20050027821" | "20050031135" | "20050047605" | "20050058149" | "20050060435" | "20050062637" | "20050069153" | "20050081213" | "20050100174" | "20050105052" | "20050114538" | "20050120128" | "20050125222" | "20050125357" | "20050131558" | "20050144284" | "20050147261" | "20050154766").PN.				
S2539	76016	(700/94.ccls. 715/716.ccls. "381".clas.) ((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2019/06/07 08:33
S2540	391	S2539 and (S2534 S2535 S2536 S2537 S2538)	US-PGPUB; USPAT	OR	ON	2019/06/07 08:33
S2541	140	("5361381").URPN.	USPAT	OR	ON	2019/06/07 08:35
S2542	119	("6430353").URPN.	USPAT	OR	ON	2019/06/07 08:38
S2543	136	("6466832").URPN.	USPAT	OR	ON	2019/06/07 08:43
S2562	2056	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/08/30 16:56
S2563	8825	second near3 play$5 near4 (media song title)	US-PGPUB; USPAT	OR	ON	2019/08/30 16:56
S2564	1489	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S2563	US-PGPUB; USPAT	OR	ON	2019/08/30 16:56
S2565	6399	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/08/30 16:56
S2566	162694	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 16:57

		G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR				

		H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2567	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/08/30 16:57
S2568	5861	S2566 and S2567	US-PGPUB; USPAT	OR	ON	2019/08/30 16:57
S2569	123	(output pair$5 channel surround$4) with config$8 and network$6 near5 $6speak$6 and S2568	US-PGPUB; USPAT	OR	ON	2019/08/30 16:57
S2570	32	("2016/0070526").URPN.	USPAT	OR	ON	2019/08/30 16:58
S2571	13	("20020141599" | "20030005462" | "20040068744" | "20050282582" | "20070250845" | "20070256113" | "20080134278" | "20080196066" | "20080219223" | "20100058407" | "6678362").PN. OR ("8528026").URPN.	US-PGPUB; USPAT	OR	ON	2019/08/30 16:59
S2572	12	("8275307").URPN.	USPAT	OR	ON	2019/08/30 17:00
S2573	159080	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:00
S2574	6399	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:00
S2575	2462	second near3 play$5 near4 (media song title) and S2573	US-PGPUB; USPAT	OR	ON	2019/08/30 17:00
S2576	605	S2574 and S2575	US-PGPUB;	OR	ON	2019/08/30 17:00

			USPAT			
S2577	159080	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:01
S2578	5219	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:01
S2579	316	S2578 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:01
S2580	14184	(output pair$5 channel surround$4) with config$8 and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/08/30 17:01
S2581	1846	(S2577 S2579) and S2580	US-PGPUB; USPAT	OR	ON	2019/08/30 17:01
S2582	1156	(scene config$8 zone) same play$4 and S2581	US-PGPUB; USPAT	OR	ON	2019/08/30 17:01
S2583	19	channel near3 map$6 same (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/08/30 17:03
S2584	102126	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06

		H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2585	162694	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06

		OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2586	159080	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06

		H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S2587	159080	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2588	162694	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06

		H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2589	289022	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06

		H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR				

		H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2590	162694	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06

		OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2591	289022	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06

		H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR				

		H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2592	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2593	5219	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2594	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2595	102126	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06

		H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2596	162694	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06

		G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2597	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2598	289022	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06

		H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR					

		H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2599	461851	S2584 S2585 S2586 S2587 S2588 S2589 S2590 S2591 S2592 S2593 S2594 S2595 S2596 S2597 S2598	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2600	377992	S2599 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2601	19068	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2599	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2602	16949	S2600 and S2601	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2603	3143	S2602 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3 lfe) and wireless$4 and (stereo pair group$4) and pair$4	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2604	1106	((G06F3/165 OR H03G3/20 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S7/30).CPC. and (700/94 381/107).CCLS.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2605	90	S2603 and S2604	US-PGPUB; USPAT	OR	ON	2019/08/30 17:06
S2606	30	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:12
S2607	102126	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13

		H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2608	162694	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13

		G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2609	159080	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13

		G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S2610	159080	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13
S2611	162694	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13

		H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2612	289022	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13

		H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR				

		H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2613	162694	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13

		OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2614	289022	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13

		H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR				

		H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2615	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13
S2616	5219	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13
S2617	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13
S2618	102126	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13

		H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2619	162694	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13

		G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2620	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13
S2621	289022	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13

		H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR				

		H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2622	461851	S2607 S2608 S2609 S2610 S2611 S2612 S2613 S2614 S2615 S2616 S2617 S2618 S2619 S2620 S2621	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13
S2623	377992	S2622 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13
S2624	19068	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2622	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13
S2625	16949	S2623 and S2624	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13
S2626	331	S2625 and (surround multi$channel multipl$5 near2 channel "5.1" mpeg$4 aes$3) and wireless$4 and (stereo pair group$4).ab. and pair$4	US-PGPUB; USPAT	OR	ON	2019/08/30 17:13
S2627	5219	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2628	316	S2627 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2629	159080	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16

		H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S2630	6399	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2631	2462	second near3 play$5 near4 (media song title) and S2629	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2632	605	S2630 and S2631	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2633	519	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab. and (S2627 S2628)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2634	33	S2632 and S2633	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2635	5219	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2636	316	S2635 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2637	23996	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2638	77	S2637 and (S2635 S2636)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:16
S2639	8	("20090012995" | "20110085674" | "20110295446" | "20120130580" | "20150105934" | "6226336" | "7983811" | "8457323").PN. OR ("10397516").URPN.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:19
S2640	10	("2009/0012995").URPN.	USPAT	OR	ON	2019/08/30 17:21
S2641	2056	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:22
S2642	7558	(scene config$8 snap$shot network$4 zone) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:22
S2643	162694	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:24

		G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR					

		H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2644	9226	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:24
S2645	5861	S2643 and S2644	US-PGPUB; USPAT	OR	ON	2019/08/30 17:24
S2646	2769	(output pair$5 channel surround$4 lfe) same config$8 and S2645	US-PGPUB; USPAT	OR	ON	2019/08/30 17:24
S2647	2769	S2646	US-PGPUB; USPAT	OR	ON	2019/08/30 17:24
S2648	79	S2646 and S2642	US-PGPUB; USPAT	OR	ON	2019/08/30 17:26
S2649	207	("20020003548" | "20020124097" | "20050181348" | "20060095516" | "5808662" | "6757517" | "7218708" | "7293060" | "7668990" | "7669219").PN. OR ("8290603").URPN.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:27
S2650	840907	(output pair$5 channel surround$4) with (zone scene snapshot config$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:27
S2651	222192	(speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:27
S2652	3555	S2650 and S2651 and (eq equaliz$9)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:27
S2653	1081	S2652 AND ((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:27
S2654	133	("2006/0095516").URPN.	USPAT	OR	ON	2019/08/30 17:28
S2655	0	"Term Removed" and lamborne	USPAT	OR	ON	2019/08/30 17:33
S2656	0	"Term Removed" and lambourne	USPAT	OR	ON	2019/08/30 17:33
S2657	0	"Term Removed" and sonos	USPAT	OR	ON	2019/08/30 17:33
S2658	9	"Term Removed"	USPAT	OR	ON	2019/08/30 17:33
S2659	1	"Term Removed" and lambourne	US-PGPUB; USPAT	OR	ON	2019/08/30 17:34
S2660	82828	((G05B15/02 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/165 OR H03G1/02 OR H03G7/00 OR H04H60/80 OR H04N21/43615 OR H04R2227/005 OR H04R2430/01 OR	US-PGPUB; USPAT	OR	ON	2019/08/30 17:34

		H04R27/00 OR H04R3/12).CPC.)				
S2661	1	"Term Removed" and lambourne	US-PGPUB; USPAT	OR	ON	2019/08/30 17:38
S2662	82828	((G05B15/02 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/165 OR H03G1/02 OR H03G7/00 OR H04H60/80 OR H04N21/43615 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12).CPC.)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:38
S2663	10308	S2662 and S2650	US-PGPUB; USPAT	OR	ON	2019/08/30 17:39
S2664	831	S2662 and S2650 and S2624	US-PGPUB; USPAT	OR	ON	2019/08/30 17:39
S2665	6	("2013/0096926").URPN.	USPAT	OR	ON	2019/08/30 17:42
S2666	200	("20050159833" | "20050160270" | "20050166135" | "20050168630" | "20050177256" | "20050177643" | "20050181348" | "20050195205" | "20050195823" | "20050197725" | "20050198574" | "20050201549" | "20050216556" | "20050254505" | "20050262217" | "20050266798" | "20050266826" | "20050281255" | "20050283820" | "20050288805" | "20050289224" | "20050289244" | "20060041616" | "20060041639" | "20060045281" | "20060072489" | "20060095516" | "20060098936" | "20060119497" | "20060143236" | "20060149402" | "20060155721" | "20060173844" | "20060179160" | "20060193454" | "20060193482" | "20060199538" | "20060205349" | "20060222186" | "20060227985" | "20060229752" | "20060259649" | "20060270395" | "20060294569" | "20070003067" | "20070003075" | "20070022207" | "20070038999" | "20070043847" | "20070047712" | "20070048713" | "20070054680" | "20070071255" | "20070087686" | "20070142022" | "20070142944" | "20070143493" | "20070169115" | "20070180137" | "20070189544" | "20070192156" | "20070206829" | "20070223725" | "20070249295" | "20070265031" | "20070271388" | "20070288610" | "20070299778" | "20080002836" | "20080007649" | "20080007650" | "20080007651" | "20080018785" | "20080022320" | "20080025535" | "20080045140" | "20080065232" | "20080066094" | "20080066120" | "20080072816" | "20080075295" | "20080077261" | "20080077619" | "20080077620" | "20080086318" | "20080091771" | "20080092204" | "20080120429" |	US-PGPUB; USPAT	OR	ON	2019/08/30 17:43

		"20080126943" | "20080144861" | "20080144864" | "20080146289" | "20080152165" | "20080159545" | "20080162668" | "20080189272" | "20080205070" | "20080212786" | "20080215169" | "20080242222" | "20080247554" | "20080263010" | "20080291863" | "20080303947" | "20090011798" | "20090017868" | "20090031336" | "20090060219" | "20090070434" | "20090089327" | "20090097672" | "20090100189" | "20090124289" | "20090157905" | "20090164655" | "20090169030" | "20090180632" | "20090193345" | "20090222115" | "20090228919" | "20090232326" | "20090251604" | "20100004983" | "20100010651" | "20100031366" | "20100049835" | "20100052843" | "20100067716" | "20100087089" | "20100142735" | "20100153097" | "20100228740" | "20100272270" | "20100284389" | "20100290643" | "20100299639" | "20110001632" | "20110002487" | "20110044476" | "20110066943" | "20110110533" | "20110170710" | "20110228944" | "20110299696" | "20110316768" | "20120029671" | "20120030366" | "20120047435" | "20120051558" | "20120051567" | "20120060046" | "20120127831" | "20120129446" | "20120148075" | "20120185771" | "20120192071" | "20120207290" | "20120237054" | "20120263325" | "20120281058" | "20120290621" | "20130010970" | "20130018960" | "20130028443" | "20130031475" | "20130038726" | "20130041954" | "20130047084" | "20130051572" | "20130052940" | "20130070093" | "20130080599" | "20130094670" | "20130124664" | "20130129122" | "20130132837" | "20130159126" | "20130167029" | "20130174100" | "20130174223" | "20130179163" | "20130191454" | "20130197682" | "20130208911" | "20130208921" | "20130226323" | "20130230175" | "20130232416" | "20130236029" | "20130243199" | "20130253679" | "20130253934" | "20130259254" | "20130279706" | "20130287186" | "20130290504" | "20130293345" | "20140006483" | "20140016784" | "20140016786").PN.				
S2667	261	("20140016802" | "20140023196" | "20140037097" | "20140064501" | "20140075308" | "20140075311" | "20140079242" | "20140108929" | "20140112481" | "20140123005" | "20140140530" | "20140161265" | "20140181569" | "20140219456" | "20140226823" | "20140242913" |	US-PGPUB; USPAT	OR	ON	2019/08/30 17:43

		"20140256260"	"20140267148"					
		"20140270202"	"20140273859"					
		"20140279889"	"20140285313"					
		"20140286496"	"20140294200"					
		"20140298174"	"20140323036"					
		"20140344689"	"20140355768"					
		"20140355794"	"20140378056"					
		"20150019670"	"20150026613"					
		"20150032844"	"20150043736"					
		"20150049248"	"20150063610"					
		"20150074527"	"20150074528"					
		"20150098576"	"20150139210"					
		"20150146886"	"20150201274"					
		"20150256954"	"20150281866"					
		"20150286360"	"20150304288"					
		"20150365987"	"20170188152"					
		"3956591"	"4105974"	"4296278"				
		"4306114"	"4382158"	"4509211"				
		"4530091"	"4696037"	"4701629"				
		"4712105"	"4731814"	"4816989"				
		"4824059"	"4845751"	"4994908"				
		"4995778"	"5086385"	"5151922"				
		"5153579"	"5182552"	"5185680"				
		"5237327"	"5239458"	"5272757"				
		"5299266"	"5361381"	"5372441"				
		"5406634"	"5430485"	"5440644"				
		"5457448"	"5467342"	"5481251"				
		"5491839"	"5515345"	"5519641"				
		"5533021"	"5553147"	"5553222"				
		"5553314"	"5596696"	"5602992"				
		"5623483"	"5625350"	"5640388"				
		"5652749"	"5661665"	"5668884"				
		"5673323"	"5696896"	"5726989"				
		"5740235"	"5742623"	"5751819"				
		"5761320"	"5774016"	"5787249"				
		"5790543"	"5808662"	"5812201"				
		"5815689"	"5818948"	"5832024"				
		"5848152"	"5852722"	"5867691"				
		"5875233"	"5875354"	"5887143"				
		"5905768"	"5910991"	"5923869"				
		"5923902"	"5946343"	"5956025"				
		"5956088"	"5960006"	"5984512"				
		"5987611"	"5990884"	"5991307"				
		"5999906"	"6009457"	"6018376"				
		"6026150"	"6029196"	"6031818"				
		"6032202"	"6038614"	"6046550"				
		"6061457"	"6078725"	"6081266"				
		"6088063"	"6101195"	"6108485"				
		"6108686"	"6122668"	"6127941"				
		"6128318"	"6148205"	"6157957"				
		"6163647"	"6169725"	"6175872"				
		"6181383"	"6185737"	"6195435"				
		"6195436"	"6199169"	"6212282"				
		"6246701"	"6253293"	"6255961"				
		"6256554"	"6269406"	"6301012"				
		"6308207"	"6310652"	"6313879"				
		"6321252"	"6324586"	"6332147"				
		"6343028"	"6349285"	"6349339"				
		"6351821"	"6353172"	"6356871"				
		"6404811"	"6418150"	"6430353"				
		"6442443"	"6449642"	"6449653"				
		"6456783"	"6463474"	"6466832"				
		"6469633"	"6487296"	"6493832"				
		"6522886"	"6526325"	"6535121"				

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		"D377651" | "D379816" | "D380752" | "D382271" | "D384940" | "D387352" | "D388792" | "D389143" | "D392641" | "D393628" | "D394659" | "D395889" | "D397996" | "D401587" | "D404741" | "D405071" | "D406847" | "D407071" | "D410927" | "D412337" | "D415496" | "D416021" | "D420006" | "D429246" | "D430143" | "D431552" | "D432525" | "D444475" | "D452520" | "D462339" | "D462340" | "D462945" | "D466108" | "D468297" | "D474763" | "D475993" | "D476643" | "D477310" | "D478051" | "D478069" | "D478896" | "D479520" | "D481056" | "D486145" | "D491925" | "D493148" | "D495333" | "D496003" | "D496005" | "D496335" | "D497363" | "D499086" | "D499395" | "D499718" | "D500015" | "D501477" | "D504872" | "D504885" | "D506463" | "D515072" | "D515557" | "D518475" | "D524296" | "D527375" | "RE41608").PN.				
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S2672	1036	S2666 S2667 S2668 S2669 S2670 S2671	US-PGPUB; USPAT	OR	ON	2019/08/30 17:44
S2673	202	S2672 and S2662	US-PGPUB; USPAT	OR	ON	2019/08/30 17:44
S2674	24	S2664 and S2673	US-PGPUB; USPAT	OR	ON	2019/08/30 17:44
S2675	1009	S2664 S2673	US-PGPUB; USPAT	OR	ON	2019/08/30 17:44
S2676	519	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab. and (S2627 S2628)	US-PGPUB; USPAT	OR	ON	2019/08/30 17:46
S2677	5	S2675 and S2676	US-PGPUB; USPAT	OR	ON	2019/08/30 17:46
S2678	1	("2016/0196851").URPN.	USPAT	OR	ON	2019/08/30 17:47
S2679	14	("2015/0092947").URPN.	USPAT	OR	ON	2019/08/30 17:48
S2680	21	("20070223725" | "20080008338" | "20090079883" | "20100260348" | "20100299639" | "20110026717" | "20120058727" | "20130089217" | "20130331970" | "20130336504" | "20140057569" | "20140079256" | "20140219484" | "20140337426" | "20150055781" | "20150092947" |	US-PGPUB; USPAT	OR	ON	2019/08/30 17:49

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S2681	339	automat$6 near6 channel near3 (config$8 set$4 map$6) and (smart intelligen$6 wireless$4 network$4 speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/08/30 17:51
S2682	361	automat$6 near6 channel near3 (config$8 zone scene snapshot area set$4 map$6) and (smart intelligen$6 wireless$4 network$4 speaker transducer loud$5speaker playback near2 devic$6 speaker play$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/08/30 17:51
S2683	20	("20040261099" | "20050195998" | "20060174312" | "20070094691" | "20080109207" | "20090216706" | "20100060549" | "20100265397" | "20160037189" | "20160080445" | "20160196851" | "5610653" | "6337716" | "6446261" | "8594743" | "9094564" | "9338391" | "9396182" | "9398322" | "9542490").PN. OR ("10362346").URPN.	US-PGPUB; USPAT	OR	ON	2019/08/30 17:59
S2685	17	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:12
S2686	10	(output pair$5 channel surround$4) with config$8 and network$6 near5 $6speak$6 and S2685	US-PGPUB; USPAT	OR	ON	2019/10/14 09:12
S2687	164309	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR	US-PGPUB; USPAT	OR	ON	2019/10/14 09:14

		H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2688	1375	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S2687	US-PGPUB; USPAT	OR	ON	2019/10/14 09:14
S2689	1375	S2688	US-PGPUB; USPAT	OR	ON	2019/10/14 09:14
S2690	2104	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:15
S2691	2104	S2690	US-PGPUB; USPAT	OR	ON	2019/10/14 09:15

S2692	2054	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) AND GROUP$5	US-PGPUB; USPAT	OR	ON	2019/10/14 09:18
S2693	2001	S2692 and (stereo mono monaural left right)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:18
S2694	30	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:22
S2695	2966	active with audio with detect$6	US-PGPUB; USPAT	OR	ON	2019/10/14 09:22
S2696	160421	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:26
S2697	2489	second near3 play$5 near4 (media song title) and S2696	US-PGPUB; USPAT	OR	ON	2019/10/14 09:26
S2698	2489	S2697	US-PGPUB; USPAT	OR	ON	2019/10/14 09:26
S2699	2104	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:26
S2700	2104	S2699	US-PGPUB; USPAT	OR	ON	2019/10/14 09:26
S2701	17	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:26

S2702	17	S2701	US-PGPUB; USPAT	OR	ON	2019/10/14 09:26
S2703	24444	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2019/10/14 09:28
S2704	24444	S2703	US-PGPUB; USPAT	OR	ON	2019/10/14 09:28
S2705	6507	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:28
S2706	30	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:28
S2707	160421	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:30
S2708	6507	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:30
S2709	2489	second near3 play$5 near4 (media song title) and S2707	US-PGPUB; USPAT	OR	ON	2019/10/14 09:30
S2710	619	S2708 and S2709	US-PGPUB; USPAT	OR	ON	2019/10/14 09:30
S2711	5245	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:30
S2712	316	S2711 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-	US-PGPUB;	OR	ON	2019/10/14 09:30

		109.ccls.)	USPAT			
S2713	6	S2712 and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:30
S2714	103467	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32
S2715	164309	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32

		G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2716	160421	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR	US-PGPUB;	OR	ON	2019/10/14 09:32

		G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	USPAT			
S2717	160421	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32
S2718	164309	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32

		G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR					

		H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2719	292947	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32

		G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2720	164309	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32

		G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR					

		H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2721	292947	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32

		G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2722	9229	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32
S2723	5245	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32
S2724	9229	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32
S2725	103467	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32

		G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2726	164309	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32

		H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2727	9229	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32
S2728	292947	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32

		H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR				

		H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2729	466723	S2714 S2715 S2716 S2717 S2718 S2719 S2720 S2721 S2722 S2723 S2724 S2725 S2726 S2727 S2728	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32
S2730	63006	704/500-502.ccls. 700/94.ccls. "381".clas.	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32
S2731	41223	S2729 and S2730	US-PGPUB; USPAT	OR	ON	2019/10/14 09:32
S2732	164309	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR	US-PGPUB; USPAT	OR	ON	2019/10/14 09:33

		G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2733	8139	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2732	US-PGPUB; USPAT	OR	ON	2019/10/14 09:33

S2734	26466	(zone scene config$9) with play$4 and S2732	US-PGPUB; USPAT	OR	ON	2019/10/14 09:33
S2735	2924	S2733 and S2734	US-PGPUB; USPAT	OR	ON	2019/10/14 09:33
S2736	2926	(zone scene config$9) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S2732	US-PGPUB; USPAT	OR	ON	2019/10/14 09:33
S2737	2926	S2736	US-PGPUB; USPAT	OR	ON	2019/10/14 09:33
S2738	30	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/10/14 09:37
S2739	1375	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and S2687	US-PGPUB; USPAT	OR	ON	2019/10/14 09:37
S2740	4	"Term Removed" and clock$4	US-PGPUB; USPAT	OR	ON	2019/10/14 09:40
S2741	2	"20160357504"	US-PGPUB; USPAT	OR	ON	2019/10/14 09:41
S2742	2127	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/10/26 15:02
S2743	19666	(zone scene config$9) with play$4 and play$5 with (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/10/26 15:02
S2744	14	"Term Removed"	US-PGPUB; USPAT	OR	ON	2019/10/26 15:03
S2745	1	"20190281397"	US-PGPUB; USPAT	OR	ON	2019/10/26 15:24
S2746	84892	((G05B15/02 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/165 OR H03G1/02 OR H03G7/00 OR H04H60/80 OR H04N21/43615 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/26 15:24
S2747	2854	S2743 and S2746	US-PGPUB; USPAT	OR	ON	2019/10/26 15:28
S2748	288	S2743 and 715/716.ccls.	US-PGPUB; USPAT	OR	ON	2019/10/26 15:28
S2749	114	S2747 and S2748	US-PGPUB; USPAT	OR	ON	2019/10/26 15:28
S2750	2673	(scene config$6 zone network$4) with play$4 with ($5speak$3 transducer).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/10/26 15:30

S2751	16032	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/10/26 15:38
S2752	1536	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab. and S2746	US-PGPUB; USPAT	OR	ON	2019/10/26 15:39
S2753	32	S2743 and 715/716.ccls. and S2752	US-PGPUB; USPAT	OR	ON	2019/10/26 15:39
S2754	8886	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker	US-PGPUB; USPAT	OR	ON	2019/10/26 15:46
S2755	1843	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker and S2746	US-PGPUB; USPAT	OR	ON	2019/10/26 15:48
S2756	368	active with audio with detect$6 and S2746	US-PGPUB; USPAT	OR	ON	2019/10/26 15:50
S2757	425	active with audio with detect$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/10/26 15:50
S2758	905	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker.ab,clm.	US-PGPUB; USPAT	OR	ON	2019/10/26 15:50
S2759	80	active with audio with detect$6 and S2755	US-PGPUB; USPAT	OR	ON	2019/10/26 15:51
S2760	126	active with audio with detect$6 and S2754	US-PGPUB; USPAT	OR	ON	2019/10/26 15:51
S2761	19	("2008/0065235").URPN.	USPAT	OR	ON	2019/10/26 15:56
S2762	911	((G05B15/02 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/165 OR H03G1/02 OR H03G7/00 OR H04H60/80 OR H04N21/43615 OR H04R2227/005 OR H04R2430/01 OR H04R27/00 OR H04R3/12).CPC.) and 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/10/26 16:14
S2763	4966	bond$4 and sonos	US-PGPUB; USPAT	OR	ON	2019/10/28 09:58
S2764	14	"Term Removed"	US-PGPUB; USPAT	OR	ON	2019/10/28 09:58
S2765	1	S2763 and S2764	US-PGPUB; USPAT	OR	ON	2019/10/28 09:58
S2766	1	"20180150278"	US-PGPUB; USPAT	OR	ON	2019/10/28 09:59
S2767	835	S2763 AND ((G06F3/165 OR G11B27/34 OR H04R2227/005 OR H04R2420/01 OR H04R2430/01 OR H04R27/00 OR	US-PGPUB; USPAT	OR	ON	2019/10/28 09:59

		H04R3/04 OR H04R3/12).CPC.)				
S2768	18	S2767 and @pd<="20140604"	US-PGPUB; USPAT	OR	ON	2019/10/28 09:59
S2769	2487	S2763 and @pd<="20140604"	US-PGPUB; USPAT	OR	ON	2019/10/28 09:59
S2770	1917	prefer$6 and bond$4 and sonos	US-PGPUB; USPAT	OR	ON	2019/10/28 10:00
S2771	354	S2770 AND ((G06F3/165 OR G11B27/34 OR H04R2227/005 OR H04R2420/01 OR H04R2430/01 OR H04R27/00 OR H04R3/04 OR H04R3/12).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/28 10:00
S2772	18	(S2767 S2771) and @pd<="20140604"	US-PGPUB; USPAT	OR	ON	2019/10/28 10:00
S2773	8	(S2771) and @pd<="20140604"	US-PGPUB; USPAT	OR	ON	2019/10/28 10:01
S2774	3838	prefer$6 and (pair$4 consolid$6 bond$4) and sonos	US-PGPUB; USPAT	OR	ON	2019/10/28 10:02
S2775	107	prefer$6 near6 (pair$4 consolid$6 bond$4) and sonos	US-PGPUB; USPAT	OR	ON	2019/10/28 10:02
S2776	62	S2775 and @pd<="20140604"	US-PGPUB; USPAT	OR	ON	2019/10/28 10:03
S2777	9442	(preset$5 stor$6 determin$6 prefer$6) same3 (pair$4 consolid$6 bond$4) and sonos	US-PGPUB; USPAT	OR	ON	2019/10/28 10:03
S2778	9451	(preset$5 stor$6 determin$6 prefer$6 scene) same3 (pair$4 consolid$6 bond$4) and sonos	US-PGPUB; USPAT	OR	ON	2019/10/28 10:04
S2779	7283856	"16" and @pd<="20140604"	US-PGPUB; USPAT	OR	ON	2019/10/28 10:05
S2780	3781	S2777 and @pd<="20140604"	US-PGPUB; USPAT	OR	ON	2019/10/28 10:06
S2781	3785	S2778 and @pd<="20140604"	US-PGPUB; USPAT	OR	ON	2019/10/28 10:06
S2782	983	S2778 AND ((G06F3/165 OR G11B27/34 OR H04R2227/005 OR H04R2420/01 OR H04R2430/01 OR H04R27/00 OR H04R3/04 OR H04R3/12).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/28 10:07
S2783	36	S2781 AND ((G06F3/165 OR G11B27/34 OR H04R2227/005 OR H04R2420/01 OR H04R2430/01 OR H04R27/00 OR H04R3/04 OR H04R3/12).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/28 10:08
S2784	2668	(preset$5 stor$6 determin$6 prefer$6 sav$4 scene) with (pair$4 consolid$6 bond$4) and sonos	US-PGPUB; USPAT	OR	ON	2019/10/28 10:14
S2785	981	S2784 and @pd<="20140604"	US-PGPUB;	OR	ON	2019/10/28 10:14

			USPAT			
S2786	0	S2785 not S2783 AND ((G06F3/165 OR G11B27/34 OR H04R2227/005 OR H04R2420/01 OR H04R2430/01 OR H04R27/00 OR H04R3/04 OR H04R3/12).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/28 10:15
S2787	9	S2785 AND ((G06F3/165 OR G11B27/34 OR H04R2227/005 OR H04R2420/01 OR H04R2430/01 OR H04R27/00 OR H04R3/04 OR H04R3/12).CPC.)	US-PGPUB; USPAT	OR	ON	2019/10/28 10:15
S2788	30	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/10/28 10:19
S2789	9	S2784 and S2788	US-PGPUB; USPAT	OR	ON	2019/10/28 10:22
S2790	17	S2778 and S2788	US-PGPUB; USPAT	OR	ON	2019/10/28 10:22
S2791	17	S2789 S2790	US-PGPUB; USPAT	OR	ON	2019/10/28 10:22
S2792	11	("2012/0263318").URPN.	USPAT	OR	ON	2019/10/28 10:24
S2793	3	("2012/0263318").URPN. not sonos.as.	USPAT	OR	ON	2019/10/28 10:24
S2794	30	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/10/28 10:44
S2795	7607	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/10/28 10:44
S2796	63897	(scene config$6 zone network$4) with play$4 and play$5 with (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/10/28 10:44
S2797	1	"20180150278"	US-PGPUB; USPAT	OR	ON	2019/10/28 17:04
S2804	862966	(output pair$5 channel surround$4) with (zone scene snapshot config$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2019/11/22 16:50
S2805	862966	S2804	US-PGPUB; USPAT	OR	ON	2019/11/22 16:50
S2806	225636	(speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/11/22 16:50
S2807	225636	S2806	US-PGPUB; USPAT	OR	ON	2019/11/22 16:50
S2808	27986	S2804 and S2806	US-	OR	ON	2019/11/22

			PGPUB; USPAT			16:51
S2809	27986	S2808	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2810	27986	S2808	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2811	27986	S2810	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2812	95200	((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC. OR (700/94 381/119 715/1716).CCLS.)	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2813	19171	S2812 and (gain level amplitude volume).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2814	19171	S2813	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2815	0	s2429+	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2816	105007	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51

		H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)				
S2817	166106	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51

		H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2818	162023	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2819	162023	((G11B27/105 OR G11B2220/61 OR G11B27/034 OR G11B27/10 OR G11B27/34 OR G11B2020/00057 OR G11B2020/10546 OR G11B2220/60 OR G11B27/36 OR G11B19/025 OR G11B2220/218 OR G11B2220/2545 OR G11B2220/2562 OR G11B2220/90 OR G11B27/28 OR G11B27/329 OR G06F17/30772 OR G06F17/30749 OR G06F17/30743 OR G06F1/1616 OR G06F1/1626 OR G06F1/1632 OR	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51

		G06F1/266 OR G06F3/0362 OR G06F17/30029 OR G06F17/30038 OR G06F17/30056 OR G06F17/30058 OR G06F17/30758 OR G06F17/30761 OR G06F17/30861 OR G06F3/017 OR G06F3/16 OR G06F3/162 OR G10H1/0058 OR G10H2240/081 OR G10H2240/085 OR G10H2240/105 OR G10H2240/125 OR G10H2240/251 OR G11C2207/16 OR G11C7/20 OR H04H20/106 OR H04H20/30 OR H04H60/46 OR H04H60/47 OR H04H60/73 OR H04H60/74 OR H04L12/40117 OR H04L29/06 OR H04L29/06027 OR H04L65/604 OR H04R2227/003 OR H04R2420/07 OR H04R2499/11 OR H04R3/04).CPC.)				
S2820	166106	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51

		G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2821	297290	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51

		H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR					

		H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2822	166106	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51

		G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2823	297290	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51

		H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023 OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR				

		G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				
S2824	9230	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2825	5298	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2826	9230	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2827	105007	((G10L19/008 OR G10L19/00 OR G10L19/24 OR G10L19/0017 OR G10L19/005 OR G10L19/02 OR G10L19/0212 OR G10L19/022 OR G10L19/032 OR G10L19/04 OR G10L19/06 OR G10L19/12 OR G10L19/167 OR G10L17/005 OR G10L19/0018 OR G10L19/16 OR G10L21/00 OR G10L15/265 OR G10L19/173 OR G10L19/20 OR G10L2021/02082 OR G10L25/69 OR H04R5/04 OR H04R2499/13 OR H04R3/12 OR H04R2420/05 OR H04R2499/15 OR H04R27/00 OR H04R3/00 OR H04R3/14 OR H04R5/02 OR H04R1/403 OR H04R2205/022 OR H04R2499/11 OR H04R1/1091 OR H04R1/30 OR H04R1/345 OR H04R2201/103 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2225/55 OR H04R2227/003 OR H04R2227/005 OR H04R2420/07 OR H04R2430/25 OR H04R25/554 OR H04R29/001 OR H04R29/002 OR H04R29/004 OR H04R29/007 OR H04R3/02 OR H04R5/023 OR H04R5/033 OR H04S1/007 OR H04S3/008 OR H04S7/40 OR H04S2420/13 OR H04S2420/03 OR H04S3/00 OR H04S1/00 OR H04S7/00 OR H04S7/307 OR H04S1/002 OR H04S2400/01 OR H04S2400/11 OR H04S2400/15 OR H04S2420/01 OR H04S3/002 OR H04S3/02 OR H04S5/005 OR H04S7/30 OR H04S7/301 OR H04S7/302 OR H04S7/305 OR H04S7/308 OR G06F1/3287 OR G06F3/16 OR G06F1/1616 OR G06F1/165 OR G06F1/1671 OR G06F1/1688 OR G06F1/3203 OR G06F9/5072 OR G06F1/266 OR G06F3/162 OR H03G3/32 OR H03M7/30 OR H04H60/04).CPC.)	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51

S2828	166106	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51

		H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2829	9230	704/500-502.ccls. 700/94.ccls.	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2830	297290	((H04S7/30 OR H04S2400/11 OR H04S2420/01 OR H04S7/302 OR H04S3/002 OR H04S2420/13 OR H04S3/00 OR H04S2400/13 OR H04S2400/15 OR H04S3/008 OR H04S7/305 OR H04S1/002 OR H04S2400/03 OR H04S2420/11 OR H04S7/00 OR H04S7/303 OR H04S1/00 OR H04S1/005 OR H04S2400/05 OR H04S2400/07 OR H04S2420/05 OR H04S3/004 OR H04S3/006 OR H04S5/00 OR H04S5/005 OR H04S5/02 OR H04S7/301 OR H04S7/307 OR H04S7/308 OR H04R5/02 OR H04R25/554 OR H04R3/12 OR H04R3/04 OR H04R2499/13 OR H04R25/606 OR H04R5/04 OR H04R2499/11 OR H04R25/505 OR H04R27/00 OR H04R3/00 OR H04R5/00 OR H04R2430/03 OR H04R29/00 OR H04R29/001 OR H04R1/02 OR H04R1/323 OR H04R1/403 OR H04R2225/43 OR H04R2420/07 OR H04R2460/03 OR H04R2499/15 OR H04R25/552 OR H04R5/033 OR H04R1/10 OR H04R2205/022 OR H04R2217/03 OR H04R2420/09 OR H04R2430/01 OR H04R25/356 OR H04R25/407 OR H04R25/453 OR H04R25/50 OR H04R25/70 OR H04R3/005 OR H04R1/1008 OR H04R1/1083 OR H04R1/265 OR H04R2201/401 OR H04R2201/403 OR H04R2203/12 OR H04R2205/021 OR H04R2205/024 OR H04R2225/31 OR H04R2225/39 OR H04R2225/51 OR H04R2225/63 OR H04R2225/67 OR H04R2227/003 OR H04R2227/005 OR H04R23/008 OR H04R2420/01 OR H04R2420/03 OR H04R2460/01 OR H04R2460/13 OR H04R25/00 OR H04R25/305 OR H04R25/353 OR H04R25/405 OR H04R25/658 OR H04R27/02 OR H04R29/004 OR H04R29/007 OR H04R3/002 OR H04R3/007 OR H04R3/02 OR H04R5/023	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51

		OR H04R7/04 OR H04R9/025 OR H04R9/06 OR G10L15/22 OR G10L21/02 OR G10L21/0208 OR G10L15/20 OR G10L15/265 OR G10L2021/02082 OR G10L15/187 OR G10L15/24 OR G10L17/00 OR G10L19/02 OR G10L2015/227 OR G10L25/63 OR G10L13/02 OR G10L13/033 OR G10L13/043 OR G10L13/08 OR G10L15/00 OR G10L15/005 OR G10L15/02 OR G10L15/04 OR G10L15/08 OR G10L15/26 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L19/00 OR G10L19/008 OR G10L19/0204 OR G10L19/0212 OR G10L19/26 OR G10L2015/221 OR G10L2015/223 OR G10L2015/226 OR G10L2021/02165 OR G10L2021/02166 OR G10L21/00 OR G10L21/0216 OR G10L21/0232 OR G10L25/18 OR G10L25/27 OR G10L25/48 OR G10L25/75 OR G10L25/78 OR H04M1/72527 OR H04M2250/74 OR H04M3/56 OR H04M19/04 OR H04M1/605 OR H04M1/6066 OR H04M2250/58 OR H04M1/02 OR H04M1/0225 OR H04M1/0241 OR H04M1/026 OR H04M1/03 OR H04M1/24 OR H04M1/247 OR H04M1/60 OR H04M1/6016 OR H04M1/6033 OR H04M1/6058 OR H04M1/72519 OR H04M1/72544 OR H04M1/72552 OR H04M1/72572 OR H04M1/72575 OR H04M2203/2061 OR H04M2203/255 OR H04M2203/30 OR H04M2250/10 OR H04M2250/12 OR H04M3/42 OR H04M3/42221 OR H04M3/4936 OR H04M3/568 OR H04M9/082 OR G10K11/002 OR G10K11/16 OR G10K15/08 OR H04N21/439 OR H04N21/4223 OR H04N21/44008 OR H04N21/2143 OR H04N21/4126 OR H04N21/4131 OR H04N21/42222 OR H04N21/43635 OR H04N21/44 OR H04N21/44218 OR H04N21/482 OR H04N21/485 OR H04N5/144 OR H04N5/23296 OR H04N5/4403 OR H04N5/607 OR H04N5/642 OR H04N7/15 OR H04N9/87 OR H03G3/3005 OR H03G1/04 OR H03G3/301 OR H03G5/165 OR H03G7/08 OR G06F17/241 OR G06F17/27 OR G06F17/2785 OR G06F17/28 OR G06F17/289 OR G06F17/30026 OR G06F17/30743 OR G06F17/30979 OR G06F1/266 OR G06F1/3287 OR G06F3/017 OR H04B3/237 OR H04L12/5815 OR H04L12/5835 OR H04L51/043 OR H04L51/066 OR H04W12/02 OR H04W12/06 OR H04W4/02 OR H04W4/10 OR H04W4/18 OR H04W76/005 OR H04W76/04 OR H04W8/22).CPC.)				

S2831	472215	S2816 S2817 S2818 S2819 S2820 S2821 S2822 S2823 S2824 S2825 S2826 S2827 S2828 S2829 S2830	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2832	387863	S2831 and (zone scene config$8 snap$shot$4)	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2833	19720	(digital wireless network$6) near3 (playback adj device $6speaker transducer) and S2831	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2834	17581	S2832 and S2833	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2835	6502	S2834 and (surround multi$channel multipl$5 near2 chanel "5.1" mpeg$4 aes$3)	US-PGPUB; USPAT	OR	ON	2019/11/22 16:51
S2836	2165	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8)	US-PGPUB; USPAT	OR	ON	2019/11/22 17:01
S2837	166106	((G10L19/008 OR G10L19/167 OR G10L19/24 OR G10L19/02 OR G10L19/00 OR G10L19/005 OR G10L19/0212 OR G10L19/04 OR G10L19/0017 OR G10L19/12 OR G10L19/022 OR G10L19/032 OR G10L19/06 OR G10L21/038 OR G10L19/0204 OR G10L19/173 OR G10L19/26 OR G10L19/018 OR G10L19/0208 OR G10L19/025 OR G10L19/20 OR G10L19/265 OR G10L25/78 OR G10L15/04 OR G10L15/18 OR G10L15/20 OR G10L15/22 OR G10L15/265 OR G10L17/26 OR G10L19/0019 OR G10L19/03 OR G10L19/038 OR G10L19/08 OR G10L19/10 OR G10L19/113 OR G10L19/18 OR G10L19/22 OR G10L2015/223 OR G10L2025/786 OR G10L21/00 OR G10L21/02 OR G10L21/0208 OR G10L21/0264 OR G10L25/12 OR G10L25/18 OR H04S2420/03 OR H04S3/008 OR H04S1/007 OR H04S1/002 OR H04S3/02 OR H04S2400/01 OR H04S3/002 OR H04S3/004 OR H04S7/30 OR H04S7/307 OR H04S1/005 OR H04S2400/11 OR H04S2420/01 OR H04S2420/13 OR H04S5/02 OR H04S7/00 OR H04S7/305 OR G11B2020/10546 OR G11B20/10527 OR G11B27/105 OR G11B2020/00057 OR G11B20/00007 OR G11B2020/00014 OR G11B2020/00043 OR G11B2020/10759 OR G11B20/10 OR G11B2020/00028 OR G11B2020/10574 OR G11B2020/10592 OR G11B2020/10601 OR G11B2020/10675 OR G11B2020/1288 OR G11B20/00086 OR G11B20/0021 OR G11B20/00282 OR G11B20/00347 OR G11B20/00992 OR G11B2220/2537 OR G11B2220/2545 OR G11B2220/61 OR G11B27/005 OR G11B27/034 OR G11B27/038 OR	US-PGPUB; USPAT	OR	ON	2019/11/22 17:01

		G11B27/11 OR G11B27/28 OR G11B27/3027 OR G11B27/326 OR G06F3/16 OR G06F3/162 OR G06F17/30743 OR G06F15/167 OR G06F17/30758 OR G06F17/30775 OR G06F1/3287 OR G06F1/3293 OR G06F9/30014 OR G06F9/3012 OR G06F9/3877 OR G06F9/3897 OR G06F9/441 OR H03G7/007 OR H03G5/165 OR H03G9/005 OR H04H60/27 OR H04H60/58 OR H04H20/14 OR H04H20/31 OR H04H20/426 OR H04H20/61 OR H04H20/88 OR H04H20/95 OR H04H40/36 OR H04H60/37 OR H04H60/72 OR H04L65/607 OR H04L25/03159 OR H04N21/8113 OR H04N19/00096 OR H04N19/00484 OR H04N19/00775 OR H04N19/00781 OR H04N21/2407 OR H04N21/4126 OR H04N21/439 OR H04N21/443 OR H04N21/4437 OR H04N21/478 OR H04N21/8193 OR H04N7/26058 OR H04N7/26127 OR H04N7/26186 OR H04N7/26292 OR H04N7/26882 OR G10H1/0041 OR G10H2210/046 OR G10H2210/381 OR G10H2250/581 OR G10H2250/595 OR G10H7/12 OR H04M19/04 OR H04M1/72522 OR H04M1/72527 OR H04M3/432 OR H04M3/487 OR H04M3/56 OR H04M3/568 OR H04R2225/43 OR H04R2225/55 OR H04R25/356 OR H04R25/552 OR H04R25/554 OR H04R3/04).CPC.)				
S2838	28768	S2837 and ($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker)	US-PGPUB; USPAT	OR	ON	2019/11/22 17:01
S2839	329780	($6zone scene configu$8 set$4up snap$3shot cad) same (speaker transducer loud$5speaker)	US-PGPUB; USPAT	OR	ON	2019/11/22 17:01
S2840	165292	($6zone scene configu$8 set$4up snap$3shot cad) and (speaker transducer loud$5speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/11/22 17:06
S2841	13	"Term Removed"	US-PGPUB; USPAT	OR	ON	2019/11/22 17:26
S2842	1	"Term Removed" and sync$8.clm.	US-PGPUB; USPAT	OR	ON	2019/11/22 17:26
S2843	12484	S2839 AND ((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2019/11/22 17:39
S2844	9270	S2840 AND ((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2019/11/22 17:39

S2845	27267	S2840 AND ((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC. 700/94.ccls. "381".clas. "704".clas.)	US-PGPUB; USPAT	OR	ON	2019/11/22 17:40
S2846	200	("20050154766" | "20050159833" | "20050160270" | "20050166135" | "20050168630" | "20050177256" | "20050177643" | "20050181348" | "20050195205" | "20050195823" | "20050197725" | "20050198574" | "20050201549" | "20050216556" | "20050254505" | "20050262217" | "20050266798" | "20050266826" | "20050281255" | "20050283820" | "20050288805" | "20050289224" | "20050289244" | "20060041616" | "20060041639" | "20060045281" | "20060072489" | "20060095516" | "20060098936" | "20060119497" | "20060143236" | "20060149402" | "20060155721" | "20060173844" | "20060179160" | "20060193454" | "20060193482" | "20060199538" | "20060205349" | "20060222186" | "20060227985" | "20060229752" | "20060259649" | "20060270395" | "20060294569" | "20070003067" | "20070003075" | "20070022207" | "20070038999" | "20070043847" | "20070047712" | "20070048713" | "20070054680" | "20070071255" | "20070087686" | "20070142022" | "20070142944" | "20070143493" | "20070169115" | "20070180137" | "20070189544" | "20070192156" | "20070206829" | "20070223725" | "20070249295" | "20070265031" | "20070271388" | "20070288610" | "20070299778" | "20080002836" | "20080007649" | "20080007650" | "20080007651" | "20080018785" | "20080022320" | "20080025535" | "20080045140" | "20080065232" | "20080066094" | "20080066120" | "20080072816" | "20080075295" | "20080077261" | "20080077619" | "20080077620" | "20080086318" | "20080091771" | "20080092204" | "20080120429" | "20080126943" | "20080144861" | "20080144864" | "20080146289" | "20080152165" | "20080159545" | "20080162668" | "20080189272" | "20080205070" | "20080212786" | "20080215169" | "20080242222" | "20080247554" | "20080263010" | "20080303947" | "20090011798" | "20090017868" | "20090031336" | "20090060219" | "20090070434" | "20090089327" | "20090097672" | "20090100189" | "20090124289" | "20090157905"	US-PGPUB; USPAT	OR	ON	2019/11/22 17:41

		"20090164655" | "20090169030" | "20090180632" | "20090193345" | "20090222115" | "20090228919" | "20090232326" | "20090251604" | "20100004983" | "20100010651" | "20100031366" | "20100049835" | "20100052843" | "20100067716" | "20100087089" | "20100142735" | "20100153097" | "20100228740" | "20100272270" | "20100284389" | "20100290643" | "20100299639" | "20110001632" | "20110002487" | "20110044476" | "20110066943" | "20110110533" | "20110170710" | "20110228944" | "20110299696" | "20110316768" | "20120029671" | "20120030366" | "20120047435" | "20120051558" | "20120051567" | "20120060046" | "20120127831" | "20120129446" | "20120148075" | "20120185771" | "20120192071" | "20120207290" | "20120237054" | "20120263325" | "20120281058" | "20120290621" | "20130010970" | "20130018960" | "20130028443" | "20130031475" | "20130038726" | "20130041954" | "20130047084" | "20130051572" | "20130052940" | "20130070093" | "20130080599" | "20130094670" | "20130124664" | "20130129122" | "20130132837" | "20130159126" | "20130167029" | "20130174100" | "20130174223" | "20130179163" | "20130191454" | "20130197682" | "20130208911" | "20130208921" | "20130226323" | "20130230175" | "20130232416" | "20130236029" | "20130243199" | "20130253679" | "20130253934" | "20130259254" | "20130279706" | "20130287186" | "20130290504" | "20130293345" | "20140006483" | "20140016784" | "20140016786").PN.				
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		"8139774" | "8144883" | "8148622" | "8150079" | "8160281" | "8169938" | "8170222" | "8170260" | "8175292" | "8175297" | "8185674" | "8189824" | "8194874" | "8204890" | "8208653" | "8214447" | "8214740" | "8214873" | "8218790" | "8229125" | "8230099" | "8233029" | "8233632" | "8233635" | "8233648" | "8234395" | "8238578" | "8239559" | "8239748" | "8243961" | "8265310" | "8279709" | "8281001" | "8285404" | "8290185" | "8290603" | "8300845" | "8306235" | "8311226" | "8315555" | "8316147" | "8325931" | "8325935" | "8331585" | "8340330" | "8345709" | "8364295" | "8370678" | "8374595" | "8391501" | "8407623" | "8411883" | "8423659" | "8423893" | "8432851" | "8433076" | "8442239" | "8452020" | "8457334" | "8463184" | "8463875" | "8473844" | "8477958" | "8483853" | "8498726" | "8509211" | "8520870" | "8565455" | "8577045" | "8577048" | "8588432" | "8588949" | "8600075" | "8600084" | "8611559" | "8615091" | "8620006" | "8639830" | "8654995" | "8672744" | "8683009" | "8700730" | "8731206" | "8750282" | "8751026" | "8762565" | "8775546" | "8788080" | "8818538" | "8819554" | "8843224" | "8843228" | "8843586" | "8855319" | "8861739" | "8879761" | "8885851" | "8886347" | "8904066" | "8914559" | "8917877" | "8923997" | "8930006" | "8934647" | "8934655" | "8942252" | "8942395" | "8954177" | "8965544" | "8965546" | "8966394" | "8977974" | "8984442" | "9020153" | "9042556" | "9137602" | "9160965" | "9195258" | "9219959" | "9226073" | "9245514").PN.				
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		"D478069" | "D478896" | "D479520" | "D481056" | "D486145" | "D491925" | "D493148" | "D495333" | "D496003" | "D496005" | "D496335" | "D497363" | "D499086" | "D499395" | "D499718" | "D500015" | "D501477" | "D504872" | "D504885" | "D506463" | "D515072" | "D515557" | "D518475" | "D524296" | "D527375" | "RE41608").PN.				
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S2851	836	(S2846 S2847 S2848 S2849)	US-PGPUB; USPAT	OR	ON	2019/11/22 17:42
S2852	161	S2851 and S2845	US-PGPUB; USPAT	OR	ON	2019/11/22 17:42
S2853	282	"7391791"	US-PGPUB; USPAT	OR	ON	2019/11/22 17:46
S2854	0	"Term Removed"	US-PGPUB; USPAT	OR	ON	2019/11/22 17:46
S2855	1	"7391791".pn.	US-PGPUB; USPAT	OR	ON	2019/11/22 17:46
S2856	1939	prefer$6 and bond$4 and sonos	US-PGPUB; USPAT	OR	ON	2019/11/22 19:45
S2857	3904	prefer$6 and (pair$4 consolid$6 bond$4) and sonos	US-PGPUB;	OR	ON	2019/11/22 19:45

			USPAT			
S2858	9580	(preset$5 stor$6 determin$6 prefer$6 scene) same3 (pair$4 consolid$6 bond$4) and sonos	US-PGPUB; USPAT	OR	ON	2019/11/22 19:45
S2859	10231	S2856 S2857 S2858	US-PGPUB; USPAT	OR	ON	2019/11/22 19:45
S2860	1118492	($6zone scene configu$8 set$4up snap$3shot cad) and (speaker transducer loud$5speaker)	US-PGPUB; USPAT	OR	ON	2019/11/22 19:45
S2861	1207673	($6zone scene configu$8 set$4up snap$3shot cad pair$4 consolid$6 bond$4) and (speaker transducer loud$5speaker)	US-PGPUB; USPAT	OR	ON	2019/11/22 19:46
S2862	17	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2019/11/22 19:48
S2863	10	(output pair$5 channel surround$4) with config$8 and network$6 near5 $6speak$6 and S2862	US-PGPUB; USPAT	OR	ON	2019/11/22 19:48
S2864	835512	(preset$5 stor$6 determin$6 prefer$6) same ($6zone scene configu$8 set$4up snap$3shot cad pair$4 consolid$6 bond$4) and (speaker transducer loud$5speaker)	US-PGPUB; USPAT	OR	ON	2019/11/22 19:55
S2865	1	"20190014413"	US-PGPUB; USPAT	OR	ON	2019/11/22 19:57
S2866	22910	((G06F3/165 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04S2400/01 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2019/11/22 19:57
S2867	13624	S2864 and S2866	US-PGPUB; USPAT	OR	ON	2019/11/22 19:57
S2868	371951	(preset$5 stor$6 determin$6 prefer$6) same ($6zone scene configu$8 set$4up snap$3shot cad pair$4 consolid$6 bond$4).ab,clm. and (speaker transducer loud$5speaker)	US-PGPUB; USPAT	OR	ON	2019/11/22 19:58
S2869	97316	(preset$5 stor$6 determin$6 prefer$6) same ($6zone scene configu$8 set$4up snap$3shot cad pair$4 consolid$6 bond$4) and (speaker transducer loud$5speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/11/22 19:58
S2870	101405	(preset$5 stor$6 determin$6 prefer$6 $6zone scene configu$8 set$4up snap$3shot cad pair$4 consolid$6 bond$4) same (speaker transducer loud$5speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/11/22 19:58
S2871	159823	(preset$5 stor$6 determin$6 prefer$6 $6zone scene configu$8 set$4up snap$3shot cad pair$4 consolid$6 bond$4).clm. and (speaker transducer	US-PGPUB; USPAT	OR	ON	2019/11/22 19:59

		loud$5speaker).ab,clm.				
S2872	166037	(preset$5 stor$6 determin$6 prefer$6 $6zone scene configu$8 set$4up snap$3shot cad pair$4 consolid$6 bond$4).ab,clm. and (speaker transducer loud$5speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2019/11/22 19:59
S2873	8903	(preset$5 stor$6 determin$6 prefer$6 $6zone scene configu$8 set$4up snap$3shot cad pair$4 consolid$6 bond$4).ab,clm. and (speaker transducer loud$5speaker).ab,clm. AND S2866	US-PGPUB; USPAT	OR	ON	2019/11/22 20:02
S2874	1051	S2859 AND S2866	US-PGPUB; USPAT	OR	ON	2019/11/22 20:02
S2875	291	S2873 AND S2874	US-PGPUB; USPAT	OR	ON	2019/11/22 20:02
S2876	9663	S2873 S2874	US-PGPUB; USPAT	OR	ON	2019/11/22 20:02
S2877	2065	(preset$5 stor$6 determin$6 prefer$6 $6zone scene configu$8 set$4up snap$3shot cad pair$4 consolid$6 bond$4).ab,clm. and (smart intellige$5 network$4 constellation plural$6) near4 (speaker transducer loud$5speaker).ab,clm. AND S2866	US-PGPUB; USPAT	OR	ON	2019/11/22 20:06
S2878	4467	(preset$5 stor$6 determin$6 prefer$6 $6zone scene configu$8 set$4up snap$3shot cad pair$4 consolid$6 bond$4).ab,clm. and (smart intellige$5 network$4 constellation plural$6 first second) near4 (speaker transducer loud$5speaker).ab,clm. AND S2866	US-PGPUB; USPAT	OR	ON	2019/11/22 20:06
S2879	0	(S2873 S2874) and @ad<="2010"	US-PGPUB; USPAT	OR	ON	2019/11/22 20:13
S2880	2074	(S2873 S2874) and @ad<="20100101"	US-PGPUB; USPAT	OR	ON	2019/11/22 20:13
S2881	1047	S2878 and @ad<="20100101"	US-PGPUB; USPAT	OR	ON	2019/11/22 20:13
S2882	0	S2879 and @ad<="20100101"	US-PGPUB; USPAT	OR	ON	2019/11/22 20:14
S2883	579	S2877 and @ad<="20100101"	US-PGPUB; USPAT	OR	ON	2019/11/22 20:14
S2884	4	("2008/0192964").URPN.	USPAT	OR	ON	2019/11/22 20:20
S2885	45	("2004/0223620").URPN.	USPAT	OR	ON	2019/11/22 20:22
S2886	15	("2004/0258259").URPN.	USPAT	OR	ON	2019/11/22 20:29
S2887	11	("2004/0114771").URPN.	USPAT	OR	ON	2019/11/22 20:32
S2888	18	("2003/0044002").URPN.	USPAT	OR	ON	2019/11/22

						20:34
S2889	663	("7643894").URPN.	USPAT	OR	ON	2019/11/22 20:37
S2890	701	("20010005174" | "20020026541" | "20020059425" | "20020065568" | "20020072816" | "20020072817" | "20020075965" | "20020082730" | "20020087224" | "20030023741" | "20060287746" | "20080109095" | "20080114481" | "5402499" | "5406634" | "5519641" | "5544228" | "5722041" | "5729611" | "5799042" | "5822440" | "5832024" | "5903135" | "5946343" | "6064699" | "6085236" | "6108625" | "6185305" | "6263503" | "6327477" | "6327563" | "6329908" | "6378010" | "6826283" | "6907458" | "7039193" | "7206404" | "D385880").PN. OR ("7643894").URPN.	US-PGPUB; USPAT	OR	ON	2019/11/22 20:47
S2891	1	"8942252".PN.	US-PGPUB; USPAT	OR	ON	2019/11/22 20:54
S2892	13	"7269338"	US-PGPUB; USPAT	OR	ON	2019/11/22 20:57
S2893	277	"7269338" "6278710" "5642171"	US-PGPUB; USPAT	OR	ON	2019/11/22 20:57
S2894	3	("7269338" "6278710" "5642171").PN.	US-PGPUB; USPAT	OR	ON	2019/11/22 20:58
S2895	282	"7391791"	US-PGPUB; USPAT	OR	ON	2019/11/22 21:01
S2896	1	"7391791".PN.	US-PGPUB; USPAT	OR	ON	2019/11/22 21:01
S2897	1133542	($6zone scene configu$8 set$4up snap$3shot cad) and (speaker transducer loud$5speaker)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:42
S2898	1133542	S2897	US-PGPUB; USPAT	OR	ON	2020/01/07 09:42
S2899	17	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:43
S2900	17	S2899	US-PGPUB; USPAT	OR	ON	2020/01/07 09:43
S2901	30	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:43
S2902	30	S2901	US-	OR	ON	2020/01/07

			PGPUB; USPAT			09:43
S2903	30	(scene config$6 zone network$4) with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:44
S2904	30	S2903	US-PGPUB; USPAT	OR	ON	2020/01/07 09:44
S2905	30	S2903	US-PGPUB; USPAT	OR	ON	2020/01/07 09:45
S2906	2763	(preset$5 stor$6 determin$6 prefer$6 sav$4 scene) with (pair$4 consolid$6 bond$4) and sonos	US-PGPUB; USPAT	OR	ON	2020/01/07 09:47
S2907	183	S2906 and (fader fad$3)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:47
S2908	437	active with audio with detect$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/07 09:48
S2909	34	S2908 and (fader fad$3)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:48
S2910	946	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker.ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/07 09:48
S2911	946	S2910	US-PGPUB; USPAT	OR	ON	2020/01/07 09:48
S2912	130	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker.ab,clm. and (fader level with operat$6 fad$3)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:49
S2913	182	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker.ab,clm. and (fader (volume level) with operat$6 fad$3)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:49
S2914	261	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker.ab,clm. and (fader (volume level) with (setting operat$6) fad$3)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:49
S2915	63	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker.ab,clm. and (fader (volume level) with (setting operat$6) fad$3).ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/07 09:49
S2916	1385	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4 sync synchron$9) near3 (play$4 $6speaker) and (fader (volume level) with (setting operat$6)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:50

		fad$3).ab,clm.				
S2917	4649	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4 sync synchron$9) near3 (play$4 $6speaker output$4) and (fader (volume level) with (setting operat$6) fad$3).ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/07 09:50
S2918	1	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker.ab,clm. and (fader (volume level) with (setting operat$6) fad$3).ab,clm. and sonos	US-PGPUB; USPAT	OR	ON	2020/01/07 09:51
S2919	63	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker.ab,clm. and (fader (volume level) with (setting operat$6) fad$3).ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/07 09:51
S2920	15522	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4 sync synchron$9) near3 (play$4 $6speaker output$4) and (fader (volume level) with (setting operator operating) fad$3) and group$6	US-PGPUB; USPAT	OR	ON	2020/01/07 09:54
S2921	13313	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wirelessly wireless network$4 sync synchronous syncroniz$5) near3 (player playback loud$speaker speaker output$4) and (fader (volume level) with (setting operator operating) fad$3) and group$6	US-PGPUB; USPAT	OR	ON	2020/01/07 09:54
S2922	13313	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wirelessly wireless network$4 sync synchronous syncroni$6) near3 (player playback loud$speaker speaker output$4) and (fader (volume level) with (setting operator operating) fad$3) and group$6	US-PGPUB; USPAT	OR	ON	2020/01/07 09:55
S2923	17	zone with play$4 and play$5 with different near3 (song media content) and (sync synchron$8) and (line$3in line$3input$4 line near3 (in input input$4)) near5 (smart intelligent sens$6 determin$6)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:55
S2924	17	S2923	US-PGPUB; USPAT	OR	ON	2020/01/07 09:55
S2925	5351	((G11B27/10 OR H03G3/10 OR H03G3/3026).CPC.)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:56
S2926	318	S2925 and (700/94.ccls. 704/500-502.ccls. 715/716,727.ccls. 381/104-109.ccls.)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:56
S2927	542	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab. and (S2925 S2926)	US-PGPUB; USPAT	OR	ON	2020/01/07 09:56

S2928	542	S2927	US-PGPUB; USPAT	OR	ON	2020/01/07 09:56
S2929	1799	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wirelessly wireless network$4 sync synchronous syncroni$6) near3 (player playback loud$speaker speaker output$4)same group$6 and (fader (volume level) with (setting operator operating) fad$3)	US-PGPUB; USPAT	OR	ON	2020/01/07 10:02
S2930	1466	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8 config$6 group$6).ab,clm. and ("381".clas. 700/94.ccls.)	US-PGPUB; USPAT	OR	ON	2020/01/07 10:03
S2931	1466	S2930	US-PGPUB; USPAT	OR	ON	2020/01/07 10:03
S2932	132677	(scene config$6 zone network$4 snap$shot map$3 group$5) with (speaker transducer loud$5speaker playback near2 devic $6speaker play$4).clm,ab.	US-PGPUB; USPAT	OR	ON	2020/01/07 10:03
S2933	358	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (config$6 group$6).ab,clm. and ("381".clas. 700/94.ccls.) and S2932	US-PGPUB; USPAT	OR	ON	2020/01/07 10:03
S2934	358	S2933	US-PGPUB; USPAT	OR	ON	2020/01/07 10:03
S2935	58571	(mixer ui gui user near3 (interfac$3 environment) fader operator) same (relation$6 proportion$6 optimi$8 optima averag$3) and (mixer ui gui user near3 (interfac$5 environment) fader operator) same (config configur$6 group grouped grouping group$wise).ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/07 10:06
S2936	3	"Term Removed" and group.clm.	US-PGPUB; USPAT	OR	ON	2020/01/07 10:06
S2937	90	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (config$6 group$6).ab,clm. and (381/119.ccls. 700/94.ccls.) and S2932	US-PGPUB; USPAT	OR	ON	2020/01/07 10:06
S2938	1	"20180293045"	US-PGPUB; USPAT	OR	ON	2020/01/07 10:08
S2939	11940	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (config$6 group$6).ab,clm. and ((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR	US-PGPUB; USPAT	OR	ON	2020/01/07 10:08

		H04R29/008 OR H04S7/00 OR H04S7/30).CPC.)				
S2940	790	(mixer ui gui user near3 (interfac$5 environ$6) fader operator) same (relation$6 proportion$6 optim$8) and (config$6 group$6).ab,clm. and ((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC.)and S2932	US-PGPUB; USPAT	OR	ON	2020/01/07 10:09
S2941	92176	((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2020/01/07 10:09
S2942	7232	S2932 and S2941	US-PGPUB; USPAT	OR	ON	2020/01/07 10:09
S2943	943	S2929 and S2941	US-PGPUB; USPAT	OR	ON	2020/01/07 10:09
S2944	406	("20010038702" | "20010042107" | "20010043592" | "20020022453" | "20020026442" | "20020078161" | "20020089529" | "20020124097" | "20020126852" | "20020136414" | "20030002689" | "20030031334" | "20030157951" | "20030161479" | "20030161492" | "20030179891" | "20040024478" | "20040131338" | "20040237750" | "20050031143" | "20050063554" | "20050147261" | "20050157885" | "20060008256" | "20060026521" | "20060032357" | "20060195480" | "20060225097" | "20070003067" | "20070025559" | "20070032895" | "20070038999" | "20070086597" | "20070116254" | "20070121955" | "20070142944" | "20080002839" | "20080065247" | "20080069378" | "20080098027" | "20080136623" | "20080144864" | "20080175411" | "20080232603" | "20080266385" | "20080281523" | "20090003613" | "20090024662" | "20090047993" | "20090063274" | "20090110218" | "20090138507" | "20090147134" | "20090180632" | "20090196428" | "20090202082" | "20090252481" | "20090304205" | "20090316923" | "20100128902" | "20100135501" | "20100142735" | "20100146445" | "20100162117" | "20100189203" | "20100195846" | "20100272270" | "20100296659" |	US-PGPUB; USPAT	OR	ON	2020/01/07 10:34

		"20100303248" | "20100303250" | "20100323793" | "20110007904" | "20110007905" | "20110087842" | "20110091055" | "20110170710" | "20110234480" | "20110268281" | "20120032928" | "20120051558" | "20120057724" | "20120093320" | "20120127831" | "20120140936" | "20120148075" | "20120183156" | "20120213391" | "20120215530" | "20120237037" | "20120243697" | "20120263325" | "20120268145" | "20120269356").PN. OR ("20120275613" | "20120283593" | "20120288124" | "20130010970" | "20130028443" | "20130051572" | "20130066453" | "20130108055" | "20130129102" | "20130129122" | "20130202131" | "20130211843" | "20130216071" | "20130223642" | "20130230175" | "20130259254" | "20130279706" | "20130315405" | "20130329896" | "20130331970" | "20140003622" | "20140003623" | "20140003625" | "20140003626" | "20140003635" | "20140006587" | "20140016784" | "20140016786" | "20140016802" | "20140023196" | "20140037097" | "20140052770" | "20140064501" | "20140079242" | "20140084014" | "20140086423" | "20140112481" | "20140119551" | "20140126730" | "20140161265" | "20140169569" | "20140180684" | "20140192986" | "20140219456" | "20140219483" | "20140226823" | "20140242913" | "20140267148" | "20140270202" | "20140270282" | "20140273859" | "20140279889" | "20140285313" | "20140286496" | "20140294200" | "20140310269" | "20140321670" | "20140323036" | "20140334644" | "20140341399" | "20140344689" | "20140355768" | "20140355794" | "20150011195" | "20150016642" | "20150031287" | "20150032844" | "20150036847" | "20150036848" | "20150043736" | "20150063610" | "20150078586" | "20150078596" | "20150100991" | "20150146886" | "20150149943" | "20150195666" | "20150201274" | "20150208184" | "20150212788" | "20150229699" | "20150260754" | "20150271616" | "20150281866" | "20150289064" | "20150358756" | "20150382128" | "20160007116" | "20160011846" | "20160011850" | "20160014509" | "20160014510" | "20160014511").PN. OR ("20160014534" | "20160014536" | "20160021458" | "20160021473" | "20160021481" | "20160027467" | "20160029142" | "20160035337" | "20160037277" | "20160070526" |			

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S2945	530854	(bond$4 exclus$6 dynamic$6) with (zone scene config$8 snap$shot)	US-PGPUB; USPAT	OR	ON	2020/01/07 10:35
S2946	25500	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2020/01/07 10:35
S2947	3810	S2945 and S2946	US-PGPUB; USPAT	OR	ON	2020/01/07 10:35
S2948	949	S2947 and S2941	US-PGPUB; USPAT	OR	ON	2020/01/07 10:38
S2949	976	S2947 and (700/94.ccls. 381/119.ccls. 715/716,727.ccls. S2941)	US-PGPUB; USPAT	OR	ON	2020/01/07 10:39
S2950	1250	S2943 S2949	US-PGPUB; USPAT	OR	ON	2020/01/07 10:39
S2951	669	S2943 and S2949	US-PGPUB; USPAT	OR	ON	2020/01/07 10:39
S2952	11	("2015/0278322").URPN.	USPAT	OR	ON	2020/01/07 10:52
S2953	143	("20010042107" | "20020002039" | "20020003548" | "20020022453" | "20020026442" | "20020072816" | "20020098878" | "20020124097" | "20020143547" | "20030020763" | "20030157951" | "20030167335" | "20030177889" | "20030198257" | "20040010727" | "20040015252" | "20040024478" | "20040117044" | "20040131192" | "20040147224" | "20040220687" | "20040223622" | "20040225389" | "20050002535" | "20050021470" | "20050100174" | "20050131558" | "20050144284" | "20050177256" | "20050254505" | "20050289224" | "20050289244" | "20060041616" | "20060149402" | "20060179160" | "20060205349" | "20060229752" | "20070142022" | "20070142944" | "20070189544" | "20070223725" | "20070288610" | "20080025535" | "20080045140" | "20080066094" | "20080066120" | "20080077261" | "20080092204" | "20080144861" | "20080152165" | "20080159545" | "20080162668" | "20090097672" | "20090228919" | "20090232326" | "20100010651" |	US-PGPUB; USPAT	OR	ON	2020/01/07 10:54

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S2954	1199	S2950 and group$6	US-PGPUB; USPAT	OR	ON	2020/01/07 10:58
S2955	431	S2950 and group$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/07 10:58
S2964	1799	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wirelessly wireless network$4 sync synchronous syncroni$6) near3 (player playback loud$speaker speaker output$4)same group$6 and (fader (volume level) with (setting operator operating) fad$3)	US-PGPUB; USPAT	OR	ON	2020/01/07 13:37
S2965	92176	((G05B15/02 OR G06F16/27 OR G06F3/0482 OR G06F3/04842 OR G06F3/04847 OR G06F3/04855 OR G06F3/162 OR G06F3/165 OR G11B27/00 OR H04R2227/003 OR H04R2227/005 OR H04R27/00 OR H04R29/008 OR H04S7/00 OR H04S7/30).CPC.)	US-PGPUB; USPAT	OR	ON	2020/01/07 13:37
S2966	943	S2964 and S2965	US-PGPUB; USPAT	OR	ON	2020/01/07 13:37
S2967	530854	(bond$4 exclus$6 dynamic$6) with (zone scene config$8 snap$shot)	US-PGPUB; USPAT	OR	ON	2020/01/07 13:37
S2968	25500	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2020/01/07 13:37
S2969	3810	S2967 and S2968	US-PGPUB; USPAT	OR	ON	2020/01/07 13:37
S2970	976	S2969 and (700/94.ccls. 381/119.ccls. 715/716,727.ccls. S2965)	US-PGPUB; USPAT	OR	ON	2020/01/07 13:37

S2971	1250	S2966 S2970	US-PGPUB; USPAT	OR	ON	2020/01/07 13:37
S2972	431	S2971 and group$6.ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/07 13:37
S2985	132	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker.ab,clm. and (fader level with operat$6 fad$3)	US-PGPUB; USPAT	OR	ON	2020/01/21 13:10
S2986	132	S2985	US-PGPUB; USPAT	OR	ON	2020/01/21 13:10
S2987	132	S2985	US-PGPUB; USPAT	OR	ON	2020/01/21 13:11
S2988	63	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) near3 $6speaker.ab,clm. and (fader (volume level) with (setting operat$6) fad$3).ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/21 13:11
S2989	63	S2988	US-PGPUB; USPAT	OR	ON	2020/01/21 13:11
S2990	0	("853790" "896829" "465457" "130919").pn.	US-PGPUB; USPAT	OR	ON	2020/01/21 13:12
S2991	58	"Term Removed"	US-PGPUB; USPAT	OR	ON	2020/01/21 13:13
S2992	22	((zone scene config$8 snap$shot channel near3 map$6) (smart intelligen$6 wireless$4 network$4) with $6speaker (fader (volume level) with (setting operat$6) fad$3)).ab,clm. and S2991	US-PGPUB; USPAT	OR	ON	2020/01/21 13:14
S2993	2	"Term Removed" and processor.ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/21 13:14
S2999	117084	700/94.ccls. ((G06F3/165 OR G06F16/433 OR G06F3/0482 OR G06F3/04842 OR G06F3/16 OR G06F3/162 OR H04R27/00 OR H04R3/12 OR H04R5/04 OR H04R2227/003 OR H04R2227/005 OR H04R2420/01 OR H04R2420/07 OR H04R2430/01 OR H03G3/20 OR H03G3/3005 OR H03G5/165 OR H03G1/02 OR H03G7/00 OR H04S2400/01 OR H04S7/30 OR H04S2400/13 OR H04S3/008 OR H04S7/308 OR G05B15/02 OR G11B19/02 OR H04H60/80 OR H04N21/4307 OR H04N21/43615 OR H04N21/43637 OR H04N21/4852 OR H04N21/8106).CPC.)	US-PGPUB; USPAT	OR	ON	2020/01/27 09:11
S3000	533267	(bond$4 exclus$6 dynamic$6) with (zone scene config$8 snap$shot)	US-PGPUB; USPAT	OR	ON	2020/01/27 09:13

S3001	25652	(output pair$5 channel surround$4) with (set$6 config$8 map$5) and network$6 near5 $6speak$6	US-PGPUB; USPAT	OR	ON	2020/01/27 09:13
S3002	555084	S3000 S3001	US-PGPUB; USPAT	OR	ON	2020/01/27 09:13
S3003	14554	S2999 and (S3000 S3001)	US-PGPUB; USPAT	OR	ON	2020/01/27 09:14
S3004	228023	(speaker transducer loud$3speaker).ab,clm.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:14
S3005	2418	(speaker transducer loud$3speaker).ab,clm. and S3003	US-PGPUB; USPAT	OR	ON	2020/01/27 09:14
S3006	534076	(bond$4 exclus$6 dynamic$6) with (zone scene config$8 snap$shot channel near3 map$6)	US-PGPUB; USPAT	OR	ON	2020/01/27 09:16
S3007	1813024	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4)	US-PGPUB; USPAT	OR	ON	2020/01/27 09:16
S3008	47533	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) and S3004	US-PGPUB; USPAT	OR	ON	2020/01/27 09:16
S3009	7354	(zone scene config$8 snap$shot channel near3 map$6) same (smart intelligen$6 wireless$4 network$4) and S3004 and S2999	US-PGPUB; USPAT	OR	ON	2020/01/27 09:17
S3010	16490	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:17
S3011	377	S3009 and S3010	US-PGPUB; USPAT	OR	ON	2020/01/27 09:18
S3012	163	S3005 and S3011	US-PGPUB; USPAT	OR	ON	2020/01/27 09:18
S3013	916	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab. and S3003	US-PGPUB; USPAT	OR	ON	2020/01/27 09:19
S3014	11676	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab. and S3007	US-PGPUB; USPAT	OR	ON	2020/01/27 09:19
S3015	828	(zone scene config$9 snapshot schem$3).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab. and S3007 and S3013	US-PGPUB; USPAT	OR	ON	2020/01/27 09:19
S3016	937	(zone scene config$9 snapshot schem$3 (output preset channel) near2 (data map$6)).clm,ab. and play$5 with (song media content music) and (sync synchron$8).clm,ab. and S3003	US-PGPUB; USPAT	OR	ON	2020/01/27 09:20
S3017	7517	(output pair$5 channel surround$4) with (set$6 config$8 map$5).ab,clm. and	US-PGPUB;	OR	ON	2020/01/27 09:21

		network$6 near5 $6speak$6	USPAT			
S3018	21799	(output pair$5 channel surround$4) with (set$6 config$8 map$5).ab,clm. and S2999	US-PGPUB; USPAT	OR	ON	2020/01/27 09:21
S3023	0	H04R5/04.ccls.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:26
S3024	0	H04R27/00.ccls.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:26
S3025	0	H04S7/30.ccls.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:26
S3026	0	H04R2227/003,005.ccls.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:26
S3027	0	H04R2420/01,07.ccls.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:26
S3029	3301	H04R3/12.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:27
S3030	6896	G06F3/165.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:27
S3031	2374	H03G3/20,3005.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:27
S3032	1164	H03G5/165.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:27
S3033	3869	H04R5/04.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:27
S3034	3588	H04R27/00.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:27
S3035	2041	H04S7/30.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:27
S3036	2305	H04R2227/003,005.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:28
S3037	6519	H04R2420/01,07.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:28
S3038	1703	H04S2400/01.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/27 09:28

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Doc description: Information Disclosure Statement (IDS) Filed

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	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	1							

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	Final Office Action mailed 05 June 2014, issued in connection with U.S. Patent Application No. 13/907666, filed on 31 May 2013, 12 pages.	
	2	Final Office Action mailed 13 July 2009, issued in connection with U.S. Patent Application No. 10/816217, filed on 01 April 2004, 16 pages.	
	3	Final Office Action mailed 13 September 2012, issued in connection with U.S. Patent Application No. 13/297000, filed on 15 November 2011, 17 pages.	
	4	Final Office Action mailed 18 November 2015, issued in connection with U.S. Patent Application No. 13/533105, filed on 26 June 2012, 56 pages.	
	5	Final Office Action mailed 21 October 2011, issued in connection with U.S. Patent Application No. 10/816217, filed on 01 April 2004, 19 pages.	
	6	Final Office Action mailed 23 July 2014, issued in connection with U.S. Patent Application No. 13/896037, filed 16 May 2013, 12 pages.	
	7	Final Office Action mailed 27 March 2014, issued in connection with U.S. Patent Application No. 13/533105, filed on 26 June 2012, 29 pages.	
	8	Final Office Action mailed 28 January 2011, issued in connection with U.S. Patent Application No. 10/816217, filed on 01 April 2004, 21 pages.	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C.M./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	9	Final Office Action mailed 30 June 2008, issued in connection with U.S. Patent Application No. 10/816217, filed on 01 April 2004, 30 pages.	
	10	Final Office Action mailed on 01 July 2016, issued in connection with U.S. Patent Application No. 13/458558, filed on 27 April 2012, 11 pages.	
	11	Final Office Action mailed on 02 July 2015, issued in connection with U.S. Patent Application No. 13/458558, filed on 27 April 2012, 11 pages.	
	12	Final Office Action mailed on 03 August 2015, issued in connection with U.S. Patent Application No. 13/848921, filed on 22 March 2013, 13 pages.	
	13	Final Office Action mailed on 03 December 2014, issued in connection with U.S. Patent Application No. 14/184528, filed on 19 February 2014, 12 pages.	
	14	Final Office Action mailed on 03 July 2012, issued in connection with U.S. Patent Application No. 13/298090, filed on 16 November 2011, 46 pages.	
	15	Final Office Action mailed on 03 June 2016, issued in connection with U.S. Patent Application No. 13/705176, filed on 05 December 2012, 24 pages.	
	16	Final Office Action mailed on 03 March 2015, issued in connection with U.S. Patent Application No. 13/864251, filed on 17 April 2013, 13 pages.	
	17	Final Office Action mailed on 04 March 2015, issued in connection with U.S. Patent Application No. 13/848904, filed on 22 March 2013, 16 pages.	
	18	Final Office Action mailed on 05 March 2015, issued in connection with U.S. Patent Application No. 13/888203, filed on 06 May 2013, 13 pages.	
	19	Final Office Action mailed on 07 January 2015, issued in connection with U.S. Patent Application Serial No. 13/848932, filed on 22 March 2013, 14 pages.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	20	Final Office Action mailed on 09 March 2015, issued in connection with U.S. Patent Application No. 14/516867, filed on 17 October 2014, 14 pages.	
	21	Final Office Action mailed on 10 August 2015, issued in connection with U.S. Patent Application No. 14/290493, filed on 29 May 2014, 26 pages.	
	22	Final Office Action mailed on 10 February 2014, issued in connection with U.S. Patent Application No. 13/013740, filed 25 January 2011, 13 pages.	
	23	Final Office Action mailed on 11 August 2015, issued in connection with U.S. Patent Application No. 13/864247, filed on 17 April 2013, 15 pages.	
	24	Final Office Action mailed on 11 February 2015, issued in connection with U.S. Patent Application No. 14/184526, filed on 19 February 2014, 13 pages.	
	25	Final Office Action mailed on 11 February 2015, issued in connection with U.S. Patent Application No. 14/184,935, filed on 20 February 2014, 17 pages.	
	26	Final Office Action mailed on 12 February 2015, issued in connection with U.S. Patent Application No. 14/184522, filed on 19 February 2014, 20 pages.	
	27	Final Office Action mailed on 13 April 2017, issued in connection with U.S. Patent Application No. 14/563,515, filed on 08 December 2014, 13 pages.	
	28	Final Office Action mailed on 13 December 2016, issued in connection with U.S. Patent Application No. 14/629937, filed on 24 February 2015, 14 pages.	
	29	Final Office Action mailed on 13 October 2011, issued in connection with U.S. Patent Application No. 11/853790, filed 11 September 2007, 10 pages.	
	30	Final Office Action mailed on 13 October 2011, issued in connection with U.S. Patent Application No. 12/035112, filed on 21 February 2008, 10 pages.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	31	Final Office Action mailed on 14 November 2018, issued in connection with U.S. Patent Application No. 15/130919, filed on 15 April 2016, 12 pages.	
	32	Final Office Action mailed on 15 July, 2015, issued in connection with U.S. Patent Application No. 14/504812, filed on 02 October 2014, 18 pages.	
	33	Final Office Action mailed on 15 June 2015, issued in connection with U.S. Patent Application No. 14/184522, filed on 19 February 2014, 25 pages.	
	34	Final Office Action mailed on 17 December 2014, issued in connection with U.S. Patent Application No. 13/533105, filed on 26 June 2012, 36 pages.	
	35	Final Office Action mailed on 19 October 2016, issued in connection with U.S. Patent Application No. 13/848921, filed on 22 March 2013, 14 pages.	
	36	Final Office Action mailed on 21 January 2010, issued in connection with U.S. Patent Application No. 11/906702, filed on 02 October 2007, 27 pages.	
	37	Final Office Action mailed on 22 October 2014, issued in connection with U.S. Patent Application No. 14/186850, filed on 21 February 2014, 12 pages.	
	38	Final Office Action mailed on 23 October 2014, issued in conection with U.S. Patent Application No. 13/705176, filed on 05 December 2012, 23 pages.	
	39	Final Office Action mailed on 24 February 2016, issued in connection with U.S. Patent Application No. 13/871795, filed on 26 April 2013, 28 pages.	
	40	Final Office Action mailed on 25 May 2016, issued in connection with U.S. Patent Application No. 14/290493, filed on 29 May 2014, 33 pages.	
	41	Final Office Action mailed on 28 April 2015, issued in connection with U.S. Patent Application No. 14/186850, filed on 21 February 2014, 20 pages.	

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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	42	Final Office Action mailed on 29 June 2015, issued in connection with U.S. Patent Application No. 14/465457, filed on 21 August 2014, 13 pages.	
	43	Final Office Action mailed on 3 January 2019, issued in connection with U.S. Patent Application No. 15/405931, filed on 13 January 2017, 16 pages.	
	44	Final Office Action mailed on 30 November 2015, issued in connection with U.S. Patent Application No. 13/871795, filed on 26 April 2013, 26 pages.	
	45	Final Office Action mailed on 6 April 2017, issued in connection with U.S. Patent Application No. 14/620937, filed on 12 February 2015, 15 pages.	
	46	Final Office Action mailed on 7 December 2017, issued in connection with U.S. Patent Application No. 14/619813, filed on 11 February 2015, 11 pages.	
	47	Fireball DVD and Music Manager DVDM-100 Installation and User's Guide, Copyright 2003, 185 pages.	
	48	Fireball MP-200 User's Manual, Copyright 2006, 93 pages.	
	49	Fireball Remote Control Guide WD006-1-1, Copyright 2003, 19 pages.	
	50	Fireball SE-D1 User's Manual, Copyright 2005, 90 pages.	

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EXAMINER SIGNATURE

Examiner Signature	/PAUL C MCCORD/ 01/17/2020	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Docket No. 11-0401-CON1019A)
(MBHB 15-1432-US-CON5)

In the Application of:	)	
	)	
Christopher Kallai, et al.	)	Examiner: MCCORD, PAUL
	)	
Application No.: 16/670,109	)	Group Art Unit: 2654
	)	
Filed: October 31, 2019	)	Confirmation No. 7387
	)	
Title: Playback Device Pairing	)	
	)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

APPLICANT SUMMARY OF
EXAMINER-INITIATED INTERVIEW

A telephonic examiner interview took place on January 16, 2020. Participants included Examiner Paul McCord and Applicant's Representative, Jeff Armstrong. During the interview, Examiner McCord requested that Applicant file a terminal disclaimer relative to U.S. App. 16/128,443 and U.S. Pat. Nos. 10,136,218; 9,219,959; 8,788,080; and 8,483,853. No exhibits were shown and no demonstrations were conducted.

Applicant disagrees that the claims of the present application are not patentably distinct from the claims of U.S. App. 16/128,443 and U.S. Pat. Nos. 10,136,218; 9,219,959; 8,788,080; and 8,483,853. Nevertheless, without conceding the merits of any potential double patenting rejections, Applicant submits herewith a terminal disclaimer relative to U.S. App. 16/128,443 and U.S. Pat. Nos. 10,136,218; 9,219,959; 8,788,080; and 8,483,853.

Please charge any underpayment or credit any overpayment of fees in connection with prosecution of the above-captioned application to Deposit Account 13-2490.

If further discussion would advance the application to allowance, Applicant invites the Examiner to telephone the undersigned at 312-913-0001.

Respectfully submitted,
McDonnell Boehnen Hulbert & Berghoff LLP

Date: January 22, 2020

By: /Jeffrey P. Armstrong/
Jeffrey P. Armstrong
Reg. No. 54,967

Electronic Acknowledgement Receipt

EFS ID:	38373086
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Jeffrey Armstrong
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A /15-1432
Receipt Date:	22-JAN-2020
Filing Date:	31-OCT-2019
Time Stamp:	22:48:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant summary of interview with examiner	11-0401-CON1019A_InterviewSummary.pdf	87607 9c3039fffbd14ada2b337f78852f1f1021f3d159	no	2

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/25 PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION AND TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	16670109
Filing Date	31-Oct-2019
First Named Inventor	Christopher Kallai
Attorney Docket Number	11-0401-CON1019A /15-1432
Title of Invention	Playback Device Pairing

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☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
Sonos, Inc.	100 %

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number(s)

16128443 filed on 09/11/2018

as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the reference application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

8483853

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9219959

10136218

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

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○ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicants claims the following fee status:

○ Small Entity

○ Micro Entity

◉ Regular Undiscounted

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

◉ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Registration Number 54967

○ A sole inventor

○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

○ A joint inventor; all of whom are signing this request

Signature	/Jeffrey P. Armstrong/
Name	Jeffrey P. Armstrong

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

Application Number:	16670109
Filing Date:	31-Oct-2019
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Filer:	Jeffrey Armstrong
Attorney Docket Number:	11-0401-CON1019A /15-1432

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**160**

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 16670109

Filing Date: 31-Oct-2019

Applicant/Patent under Reexamination: Kallai

Electronic Terminal Disclaimer filed on January 22, 2020

☒ APPROVED

This patent is subject to a terminal disclaimer

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Electronic Acknowledgement Receipt	
EFS ID:	38373064
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Jeffrey Armstrong
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A /15-1432
Receipt Date:	22-JAN-2020
Filing Date:	31-OCT-2019
Time Stamp:	22:40:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$160
RAM confirmation Number	E20201LM40221944
Deposit Account	132490
Authorized User	Jeffrey Armstrong
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30612 89212a23acdd8361e7ad7dbdece4a96c231d7d83	no	2
Warnings:					
Information:					
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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/670,109	10/31/2019	Christopher Kallai	11-0401-CON1019A /15-1432	7387

107361 7590 01/14/2020

McDonnell Boehnen Hulbert & Berghoff LLP
Sonos, Inc.
300 South Wacker Drive
Chicago, IL 60606

EXAMINER	
MCCORD, PAUL C	

ART UNIT	PAPER NUMBER
2654	

MAIL DATE	DELIVERY MODE
01/14/2020	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Decision Granting Request for Prioritized Examination (Track I)	**Application No.** 16/670,109	**Applicant(s)** Kallai et al.	
	Examiner CHERYL P GIBSON BAYLOR	**Art Unit** OPET	**AIA (FITF) Status** No

1. THE REQUEST FILED 31 October 2019 IS **GRANTED** .

The above-identified application has met the requirements for prioritized examination

A. ☑ for an original nonprovisional application (Track I).
B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination**. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

A. filing a **petition for extension of time** to extend the time period for filing a reply;

B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims** , or a multiple dependent claim;

C. filing a **request for continued examination** ;

D. filing a notice of appeal;

E. filing a request for suspension of action;

F. mailing of a notice of allowance;

G. mailing of a final Office action;

H. completion of examination as defined in 37 CFR 41.102; or

I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.

/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET	

U.S. Patent and Trademark Office
PTO-2298 (Rev. 02-2012)

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/670,109	10/31/2019	Christopher Kallai	11-0401-CON1019A /15-1432	7387

107361 7590 12/19/2019

McDonnell Boehnen Hulbert & Berghoff LLP
Sonos, Inc.
300 South Wacker Drive
Chicago, IL 60606

EXAMINER	
MCCORD, PAUL C	

ART UNIT	PAPER NUMBER
2654	

MAIL DATE	DELIVERY MODE
12/19/2019	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Applicant-Initiated Interview Summary	**Application No.** 16/670,109	**Applicant(s)** Kallai et al.	
	Examiner PAUL C MCCORD	**Art Unit** 2654	**AIA (FITF) Status** No

All participants (applicant, applicants representative, PTO personnel):

(1) PAUL C. MCCORD. (3) _____.

(2) JEFFREY ARMSTRONG. (4) _____.

Date of Interview: 16 December 2019.

Type: ☑ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☑ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☑Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1.

Identification of prior art discussed: n/a.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicant clarified the instant claims and their relationship with parent cases.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/PAUL C MCCORD/ Primary Examiner, Art Unit 2654	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/670,109	10/31/2019		1720	11-0401-CON1019A /15-1432	20	3

CONFIRMATION NO. 7387

FILING RECEIPT

107361
McDonnell Boehnen Hulbert & Berghoff LLP
Sonos, Inc.
300 South Wacker Drive
Chicago, IL 60606

OC000000113069878

Date Mailed: 12/04/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Christopher Kallai, Santa Barbara, CA;
Michael Darrell Andrew Ericson, Santa Barbara, CA;
Robert A. Lambourne, Santa Barbara, CA;
Robert Reimann, Santa Barbara, CA;
Mark Triplett, St. Charles, IL;

Applicant(s)

Sonos, Inc., Santa Barbara, CA;

Power of Attorney: The patent practitioners associated with Customer Number 107361

Domestic Priority data as claimed by applicant

This application is a CON of 16/128,443 09/11/2018
which is a CON of 14/629,937 02/24/2015 PAT 10136218
which is a CON of 14/299,847 06/09/2014 PAT 9219959
which is a CON of 13/083,499 04/08/2011 PAT 8788080
which is a CIP of 13/013,740 01/25/2011 PAT 9202509
which is a CIP of 11/853,790 09/11/2007 PAT 8483853
which claims benefit of 60/825,407 09/12/2006

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 12/03/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/670,109**

Projected Publication Date: 03/12/2020

Non-Publication Request: No

Early Publication Request: No

Title

Playback Device Pairing

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 16/670,109

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	300
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	660
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	760
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*			OR	x 100 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x 460 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1720

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)	OR	RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

Electronic Acknowledgement Receipt	
EFS ID:	37824961
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:51:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	11801468_NOA_05-06-11-v2.PDF	451665 613261484efa90c46f6b90bd4981fc87573470e4	no	10

Warnings:

Information:					
2	Non Patent Literature	10816217-ADVISORYACTION-09-18-08_V2.PDF	312553 a3d31f840a78967f505f43f514e5126e531e074c	no	8
Warnings:					
Information:					
3	Non Patent Literature	14256434_NFOA_14-0401_7-23-14_12pages-v2.pdf	411955 b3581822517c4c8897c2ab0aeecf894035989921	no	12
Warnings:					
Information:					
4	Non Patent Literature	14184526_NFOA_14-0212_7-25-2014_9pages-v2.pdf	259357 c56efa6f69f271d9600807e8257bbd67384b6f60	no	9
Warnings:					
Information:					
5	Non Patent Literature	YAMAHA_3-5_2004_PART1.PDF	10436790 a01f81a15aafc4ba37acc187f72e58aecff77e16	no	128
Warnings:					
Information:					
6	Non Patent Literature	YAMAHA_3-5_2004_PART2.PDF	10428566 fa37300049cc98eb4f533a1324c1589ffb2f7c39	no	135
Warnings:					
Information:					
7	Non Patent Literature	YAMAHA_3-5_2004_PART3.PDF	10373224 e6c2dff79cba08034bef48ef1656b81638bd420c	no	115
Warnings:					
Information:					
8	Non Patent Literature	YAMAHA_3-5_2004_PART4.PDF	10416046 6cfc1dbd8e84711637f9eba45b424974b9da0895	no	93
Warnings:					
Information:					

9	Non Patent Literature	YAMAHA_3-5_2004_PART5.PDF	2885787 907ee694a7e1cb4b84fd39f0209e4a77f5ed1ea8	no	36
Warnings:					
Information:					
10	Non Patent Literature	YAMAHA_DME-64_OWNERSMANUAL-80PAGES_V2.pdf	16675949 ae19ebfa85ab9483aa13c333adb2d0d783f03125	no	80
Warnings:					
Information:					
11	Non Patent Literature	YAMAHA_DME_DESIGNER-3-5SETUPMANUALGUIDE-16PAGES_V2.PDF	5478942 218af5defb7f5a1700c1c2906d4e0115d963aeee	no	16
Warnings:					
Information:					
12	Non Patent Literature	13896037_FINAL_OA_07-23-14-12pages.pdf	426760 b8f106dd49db2a590db8aa48e3f5a2d59e811cde	no	12
Warnings:					
Information:					
13	Non Patent Literature	13533105_NON-FINAL_OA_07-31-14-v2.PDF	1036764 32508199c951e5f453154ea17ca4cd08753966a1	no	31
Warnings:					
Information:					
14	Non Patent Literature	JP2012-178711_DECISION_OF_REJECTION_07-08-2014-V2.pdf	82298 882e0e5ab73490dfe4f98f96794bbc4b9b9d3d15	no	3
Warnings:					
Information:					
15	Non Patent Literature	JP2012-178711_OFFICE_ACTION_SUMMARY_11-19-13-V2.pdf	145817 4a7b1bb7ac9dcc47d3bbc8f1cb2c898812d77191	no	5
Warnings:					
Information:					

16	Non Patent Literature	13892230_NOA_09-10-14.PDF	357054 5966e2ed06f54ee80fdf2dcbd1a947bf4db292fe	no	5
Warnings:					
Information:					
17	Non Patent Literature	13907666_Advisory_Action_9-5-14.pdf	152557 6365891123eb2f0138159fc6ca78bb2f396239f8	no	3
Warnings:					
Information:					
18	Non Patent Literature	14184935_Non-Final_OA_7-25-14.pdf	320162 a774964fe32363add23b3d9e854e272ad14b9fb4	no	11
Warnings:					
Information:					
19	Non Patent Literature	AppleTV_SetupGuide_1stGeneration_4-8-08.pdf	1284667 12bb7af24fe8023c64e02985fff8ff627c73b854	no	40
Warnings:					
Information:					
20	Non Patent Literature	APPLETV_SETUPGUIDE_2NDGENERATION_3-10-11.PDF	978393 27d93b3aeb8aed42f98134c6eeeb52445e951671	no	36
Warnings:					
Information:					
21	Non Patent Literature	AppleTV_SetupGuide_3rdGeneration_3-16-12.pdf	1323810 a761cdb34a8a8882f256a7dd181e835416d22903	no	36
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22	Non Patent Literature	14186850_Final_OA_10-22-14.PDF	411504 0111d963f9d3616d664239ca97e701933b9bf797	no	12
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23	Non Patent Literature	13896037_NOA_10-28-14.pdf	424004 15af93e00997e325956b2bec956b87ed8792f07e	no	7
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25	Non Patent Literature	13435776_Non-Final_OA_10-24-14.pdf	433584 b6aaf3c7a779804ffe88087c6cfbd3be040c2bba	no	14
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26	Non Patent Literature	13705176_Final_OA_10-23-14.pdf	813222 b42a6c1d63b8b79dca3450f23676273c3b7f8ed8	no	23
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29	Non Patent Literature	13888203_Non-Final_OA_10-23-14.pdf	272438 f06a7d0f460f2c77f3d99a672e36cabacebff049	no	9
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32	Non Patent Literature	Bluetooth_Spec_Dec1999_4of4 REDUCED.pdf	5975381 17371b72a7d9b4fa69df7a5727ca5405ebb04077	no	266
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33	Non Patent Literature	Bluetooth_Spec_Dec1999_3of4 REDUCED.pdf	6803902 7d59cf98fb14c2afdae792ce7d960a839b3cf0fc	no	270
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36	Non Patent Literature	Bluetooth_Spec_Jul_1999-4of4 REDUCED.pdf	6836459 dc07bb1db2eefcc4ca9e88ae080459b9fb826ed0	no	267
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39	Non Patent Literature	Bluetooth_Spec_Jul_1999-1of4_REDUCED.pdf	9230492 704feaed331f111655dabf79deec3ff58eb7b8c6	no	267
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41	Non Patent Literature	Dell_Reference_Guide_June2000.pdf	3684104 f828118a38daa1f2ec0e16248c89c00ce0ddb455	no	70
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42	Non Patent Literature	DELL_START_HERE_JUNE2000-v2.pdf	639158 7c70335482b871b343b3e7430474221e35f8f60d	no	2
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43	Non Patent Literature	Palm_Handbook_for_Palm_VII_May2000.pdf	8648017 cb981d3822d2c4b4fd36cee5a8aa25c80d4e492c	no	311
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45	Non Patent Literature	13892230_Non-Final_OA_5-9-14.pdf	360462 7e30ebe0af84cae76a257b558185218c26702d7d	no	10
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46	Non Patent Literature	14516867_Non-Final_OA_12-1-14.pdf	364859 7995a26823dedeedac1f2ff1af169f619c4a2a30	no	11
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47	Non Patent Literature	14186850_Advisory_Action_11-26-14.pdf	506394 28ed162aeb999fda046f6ae425395d4aad4a9fee	no	9
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48	Non Patent Literature	14184528_Final_OA_12-3-14.pdf	410080 ef6f109bdab572de571a6beb9999ad2543d15c21	no	12
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49	Non Patent Literature	13435739_Non-Final_OA_11-18-14.pdf	275007 3edfdcf99f809a59b2cd9083b4a324ec45e2bf42	no	10
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50	Non Patent Literature	13848921_Non-Final_OA_11-19-14.pdf	271448 6aadcec7ebbb239f7aa2cb83beab4fd803caba6f	no	9
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51	Non Patent Literature	13864247_Non-Final_OA_11-17-14.pdf	344920 e8940c60a00e1b96f78ba1dd9800194ca0d14a92	no	11
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52	Non Patent Literature	13907666_Advisory_Action_11-12-14.pdf	254022 aa1d551f2e8767f3e9e1184ed8407caec3fbc7f4	no	6
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53	Non Patent Literature	Renkus_Heinz_Manual_2004_6_pages.pdf	5334400 e8c6c7ac20b1c4da24db0348b3bd52b229c54d5a	no	6
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54	Non Patent Literature	Crown_PIP_Manual_2004_68_pages.pdf	3402875 bd58fdeac41e1d1c0dc9fc8d71bfb1c31045ccb4	no	68
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56	Non Patent Literature	13848932_Final_OA_1-7-15.pdf	471436 487b8268cc5ecf07d340779fb29f58ec0e2b3678	no	14
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57	Non Patent Literature	13705176_Advisory_Action_1-8-15.pdf	147494 fae29ffd78e46c8d3b6759f16163b9f25c5e4bee	no	4
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58	Non Patent Literature	JP2014503273_OA_1-6-15.pdf	180217 2ed32d627a783e8293540843e95abfd8fa72d382	no	5
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59	Non Patent Literature	14504812_Non-Final_OA_1-30-15.pdf	440781 2cbe5e2c810c0fb061fdfb7738a764184c196d0b	no	13
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60	Non Patent Literature	14465457_NON_FINAL_OA_1-27-15.PDF	354323 194990047813f7a175b8c858e69aee4714b86715	no	11
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		Total Files Size (in bytes):	168812944		

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New International Application Filed with the USPTO as a Receiving Office

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Electronic Acknowledgement Receipt

EFS ID:	37825920
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:59:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	Network_Time_Protocol_DM_0397417-536_120pages_Part2.pdf	12684304 34c64ea88c1b1967f97c23c716a2e7d16654235f	no	60

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2	Non Patent Literature	Network_Time_Protocol_DM_0397417-536_120pages_Part1.pdf	12964521 f2f7a78a57b5eaea2f0587b97f4f6915af387ca9	no	60
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3	Non Patent Literature	UPnP_Design_By_Example_DM_0401307-818_511pages_Part5.pdf	17097510 92d3bf48f070d240cf738689a83b2b6316685db4	no	40
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4	Non Patent Literature	UPnP_Design_By_Example_DM_0401307-818_511pages_Part4.pdf	22429801 112ab353feb86f8254a902e79a286c10fd61946c	no	46
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5	Non Patent Literature	UPnP_Design_By_Example_DM_0401307-818_511pages_Part3.pdf	18982276 a6cb278139dcc7e0a902157544d8f2aeed50b3d5	no	40
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8	Non Patent Literature	UPnP_Design_By_Example_DM_0401307-818_511pages_Part11.pdf	18348888 6dde44998aaab5c5903fcec3b8bf7ab69236d5c1	no	40
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9	Non Patent Literature	UPnP_Design_By_Example_DM_0401307-818_511pages_Part10.pdf	18459730 1cf33aec993f1a7335998a0c00233163d3bd09c3	no	46
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12	Non Patent Literature	UPnP_Design_By_Example_DM_0401307-818_511pages_Part7.pdf	18518123 126449ce719b0289205b8cc519edfb6853d63eba	no	40
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15	Non Patent Literature	SONOSVDM_DEFENDANTS_FINAL_INVALIDITY_CONTENTIONS-106pages.pdf	8780098 4512326dc3cf73c7f7459a70bfb3f2fe220b2800	no	106
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16	Non Patent Literature	90013859_Intent_to_Issue_Re-Exam_Certificate_3-24-17.pdf	324227 3e4872fdb477765065479c699c0f7daccd93ccb4	no	10
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17	Non Patent Literature	14619813_OA_02-24-2017.pdf	294062 7571a8dc7482084bc085fc7569c7a1ad1293dafc	no	9
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18	Non Patent Literature	SONOSVDM_DI_226_OPINION_DENYING_INEQUITABLE_CONDUCT-UPDATED_5_PAGES.pdf	724324 3f02345b7b2f06b9e45aa1015a18195b4607e521	no	5
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19	Non Patent Literature	SONOSVDM_DI_242_ANDREWS_101_OPINION.PDF	2351389 82e684ae9517b90c48e69ed0fc09299e7355b2f4	no	16
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24	Non Patent Literature	SONOS_V_DM_SUPP_OPPOSITION_BRIEF_INCLUDING_EXHIBITS_17MARCH2017_23PAGES-v2.pdf	1056821 c3f7de769b54eb0fd2deabbad9eaad9545a4bf26	no	23
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25	Non Patent Literature	SONOS_V_DM_SUPP_OPENING_MARKMAN_BRIEF_INCLUDING_EXHIBITS_03MARCH2017_17PAGES-v2.pdf	545956 3d0a4a917320ef82f4f4a2d7709ac35752f1d328	no	17
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26	Non Patent Literature	SONOSVDM_SONOS_SUPP_REPLY_MARKHAM-36_PAGES.PDF	5088392 0d622dd93687230fa6aa2cd451889a4035e417ab	no	36
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27	Non Patent Literature	14563515_FinalOA_04-13-17_13-0503-CON1214.pdf	423550 130c7fba541f501434705748ceade4cb6e49225f	no	13
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31	Non Patent Literature	90013959-NOTICEOFINCOMPLETEREEXAMREQUEST-05-25-17_10PAGES.PDF	517179 d1a56fbcbf42a638a85bce98f2d889dce897edb0	no	10
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32	Non Patent Literature	9213357-ReqforReexam_85pages_2017-05-22.pdf	5625973 8ffe6da0d85d95354d1469ed53eeecb9ea85bd04	no	85
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33	Non Patent Literature	Microsoft_Windows_File_and_Printer_Share_NOV2003_65PAGES.PDF	5516100 19593193f4a86aac2fc42da33e516cf584afb293	no	65
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34	Non Patent Literature	MP3_InternetAudioHandbook_2000_320pages-PART2OF2.pdf	16797286 eae1a55bbb3325f947504074d4413500312201fc0	no	170
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37	Non Patent Literature	SymantecpcAnywhere_Guide_2002_154pages.pdf	10867211 0f649a55eb03b308957994908 5f56c4348dd8fec	no	154
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41	Non Patent Literature	90013959_Renewed_Request_for_Ex-Parte_Reexam_6-16-17_126pagespdf.pdf	12756767 3bfd840b1d821bbd920c20ca99bc2bff73ac1d91	no	126
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44	Non Patent Literature	2947275_CA_OA_8-30-17_11-0401-CA-DIV_5pages.pdf	578754 a3170c06797f8fa2875566b35f150373304bd5b7	no	5
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46	Non Patent Literature	14563515_NOA_13-0503-CON1214_11-13-17_11pages.pdf	531093 b8e513346da69062572e33a9dd10420dfb17d9fc	no	11
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47	Non Patent Literature	Defendants_35_USC_282_Notice_filed_11-02-17_31pages.pdf	571707 cc4a664e2fc8b833b83589d4080f649781809ee4	no	31
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55	Non Patent Literature	15487686_NFOA_11-0401-CON0417_8-22-18_13pages.pdf	469501 1aa8b0d36bd28b77194b072a97e07f1bd43227a5	no	13
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56	Non Patent Literature	14629937_NOA_11-0401-CON0115_9-101-18_7pages.pdf	404858 e259b3085161a5f791c39a1e5d5739a340457fe1	no	7
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Information:					
57	Non Patent Literature	16128443_NFOA_11-0401-CON0918A_10-30-18_21pages.pdf	744648 72086232abd3671409f05a10dd185e5c36f7c227	no	21
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58	Non Patent Literature	2016108041348_NFOA_11-0401-CN-DIV_10-12-18_10pages.pdf	546391 005da660f7cc88cde37dd49c2b47cd6b1ee4ece2	no	10
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60	Non Patent Literature	15130919_FOA_11-14-18_07-0901-CON0416_12pages.pdf	417186 f0256d256e5d743d97caf4f473488968fefaae9	no	12
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		Total Files Size (in bytes):	400463497		

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If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt	
EFS ID:	37825831
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:58:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	14629937_Final_OA_12-13-16.pdf	456039 369062d06aad9b6ece7bd89c13f94be757341e7f	no	14

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2	Non Patent Literature	13458558_Non-Final_OA_12-15-16.pdf	407294 42e353ae159d37d1ea60260bb6d072a8a41126b2	no	12
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3	Non Patent Literature	15343019_OA_12-12-2016.pdf	275455 3c1d638cccc97715722df3640b1323b305fc9fd2	no	8
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7	Non Patent Literature	90013859_ThirdParty_ExParte_Reexam_Request_11-4-16.pdf	5343979 cb3856ea83fb6449fa7801c528abc00e7a7e1722	no	424
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10	Non Patent Literature	Sonos_No14-1330-RGA_DI_206-1_28pages.pdf	299059 9f2e542b1e6cf27946890f1b973e4007410a5651	no	28
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50	Non Patent Literature	Microsoft_Windows_XP_Reviewers_Guide_DM_0402225-85_61pages_Part5.pdf	18816327 b7e09cf675982370f73b214306c787cb6ece271b	no	10
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51	Non Patent Literature	Microsoft_Windows_XP_Reviewers_Guide_DM_0402225-85_61pages_Part4.pdf	23455812 7f103bb5c53a7a1b0117035ea3c2f2baae3932fb	no	10
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55	Non Patent Literature	Microsoft_Windows_XP_Reviewers_Guide_DM_0402225-85_61pages_Part6.pdf	16028477 088845aa2e1533f1abf4927423ecb2588d6abd98	no	11
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57	Non Patent Literature	Simple_Network_Time_Protocol_SNTPII_DM_0397663-76_14pages.pdf	1912668 71a466552a1f5f7ec535c943864340aad46469a5	no	14
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58	Non Patent Literature	Realtime_Transport_DM_0398235-323_89pages.pdf	18673787 970e9cead4b0255ac164cb5a07a78b1272156d17	no	89
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59	Non Patent Literature	RealTime_Control_Protocol_DM_0397810-84_75pages.pdf	10808098 a7f179b202a03547f14f9486976e1b11dce029f7	no	75
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60	Non Patent Literature	Realtime_Streaming_Protocol_DM_0397945-8036_92pages.pdf	11501792 00382063e8484428d1e08d8f73efb1d13a7c7716	no	92
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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt	
EFS ID:	37825555
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:55:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

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1	Non Patent Literature	PROFICIENT_AUDIO_SYSTEMS_M6_GUIDE_2011_5pages.pdf	441703 b8ba32c27817c2a7347d37b4fba91fb9198d0367	no	5

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15	Non Patent Literature	Balfanz_Talking-To-Strangers_2002.pdf	23823515 73dcb39daca45ca0b57755da29a2904ca62a7ac1	no	13
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28	Non Patent Literature	EXHIBIT5_Invalidity_Charts_8938637_Patent.pdf	555679 7f3f81d4d77f719a3ce00abb4a168a66c6e6ca0f	no	177
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51	Non Patent Literature	SECOND_AMENDED_COMPLAINT_2-27-2015-v2.pdf	374504 47978ec4e533fba553c18435bd8a11fe31978ff1	no	49
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Art Unit	
Examiner Name	TBD
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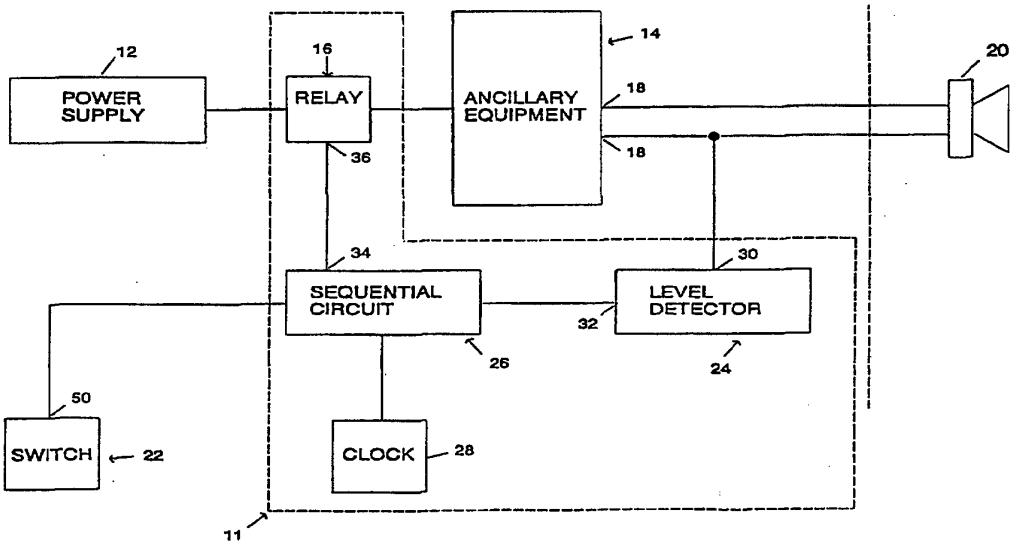
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(54) Title: METHOD AND APPARATUS FOR AUTOMATIC SHUT OFF OF ELECTRONIC EQUIPMENT



(57) Abstract

An audio output signal generated by audio, audio/visual, or electronic musical instrument equipment is monitored. If the level of the output signal falls below a predetermined threshold for a predetermined period of time, then power to the equipment is automatically shut off, resulting in a state that is the same as or similar to that which occurs when the normal user power switch is turned off. The equipment may also be turned on and turned off with the normal user power switch.

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Method and Apparatus for Automatic Shut Off of Electronic Equipment

FIELD OF THE INVENTION

The present invention relates generally to automatic shut off devices, and more particularly to methods and apparatus for automatically shutting off electronic devices having an audio signal output.

BACKGROUND

Many electronic devices having an audio signal output (such as audio tape decks, CD players, electronic keyboards, amplifiers, pre-amplifiers, video tape players, video disk players, etc.) will remain in a powered on state indefinitely, even if no audio signal output is being generated. Thus, users of such audio, audio/visual, or electronic musical instrument devices may not be aware that the device is or remains powered on after they have finished using it. For example, the user of a CD player may listen to one or more CDs, and then forget to turn off the CD player after a CD has stopped playing. Since no sound is generated after a CD has stopped playing, the user may leave the CD player and its associated amplifier powered on for hours, days, or even weeks, wasting energy, causing excessive equipment wear, and posing a potential fire hazard.

Similar drawbacks and hazards are presented to users of amplified musical instruments, such as electronic keyboards. Again, these instruments and devices cease to provide an audible sound output after the user stops playing or otherwise interacting with the instrument. Therefore, the user may forget to turn off the instrument or amplifier after she has finished playing, and the device will stay powered on indefinitely. Clearly, any device which can remain powered on indefinitely, but which generates no audio output signal when not in use, presents similar problems.

Prior art devices have been described which turn off electronic equipment after sensing the presence of a

specific signal. For example, U.S. Patent 5,170,159 to Kawabata et al., discloses an apparatus which has an auto-sleep mode. In this mode, a C.P.U. monitors for the presence of specific electronic signals which indicate that the end of the source audio material (such as a cassette tape or CD) has been reached. When such a signal is detected, the equipment is turned off. As noted in the Kawabata patent, these signals may be in the form of the output of a photo interrupter (which generates an output when the playback of a cassette tape is complete), or an end code, such as is detected by a CD player when a CD has finished playing.

During normal daytime use of audio or audio/visual equipment (such as stereo equipment) the user might wish to play many successive tapes or CDs. In this situation, the user may not want the equipment to shut off at the end of each tape or CD. Therefore, devices such as those disclosed in the Kawabata patent are primarily useful for bedtime application, or when the user wants the unit to specifically shut off once the audio material (e.g., tape or CD) has been played. Such prior art devices also cannot be modified for use in devices such as electronic keyboards or musical instrument amplifiers.

Other prior art techniques for shutting off electronic equipment incorporate sleep timers which shut off the equipment after a pre-selected period of time. Such sleep timers, which are commonly used in television sets, require human intervention for their operation. For example, the Kawabata patent discloses a device in which a sleep key must be depressed for the auto-sleep mode to be entered. That is, a conscious decision and intervention by the user of the electronic equipment must be made to insure that the equipment will shut itself off automatically at a later time. If this human intervention does not take place, the device may remain powered on indefinitely.

In addition, and perhaps most importantly, prior art sleep timer devices cannot practically be used to prevent the user from inadvertently leaving equipment on after normal

daily use. During such normal daily use, the user would not want the device to automatically shut off after a predetermined period of time, since it is not always clear how long the equipment will be in use.

Accordingly, there remains a need in the art for a device which can automatically, and without human intervention, shut off audio, audio/visual, or electronic musical instrument equipment generating an audio output signal, after the equipment has ceased to generate an audio output signal for a period of time, indicating that a user is no longer using the equipment.

SUMMARY

The present invention meets these needs by providing a device which automatically shuts off audio, audio/visual, or electronic musical instrument equipment generating an audio signal output after a period of non-use, without prior intervention on the part of the operator of the equipment.

In such a device, the audio output level is preferably continuously monitored. If the audio output level falls below a predetermined threshold for some predetermined (and possibly user programmable) length of time, power to at least a portion of the electronic equipment is cut off. Power to the equipment may in this way be turned off, resulting in a state identical or similar to that which occurs when the normal user controlled power switch is turned off. The user can restore power by pressing a single power switch, most ideally the normal user controlled power switch.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a schematic showing audio, audio/visual, or electronic musical instrument equipment including a preferred digital embodiment of an automatic shut off device.

Figure 2 is a schematic showing audio, audio/visual, or electronic musical instrument equipment

including a preferred alternative digital embodiment of an automatic shut off device.

Figure 3 is a schematic showing audio, audio/visual, or electronic musical instrument equipment including a preferred analog embodiment of an automatic shut off device.

DETAILED DESCRIPTION

The structure and function of the preferred embodiments can best be understood by reference to the drawings. The reader will note that the same reference numerals appear in multiple figures. Where this is the case, the numerals refer to the same or corresponding structure in those figures.

Referring now to **Figure 1**, a schematic of audio, audio/visual, or electronic musical instrument equipment **10** including automatic shut off device **11** is shown. As will be made clear by the discussion below, equipment **10** is preferably not electronic equipment that receives a continuously broadcast signal, such as a television or radio receiver. Automatic shut off device **11** preferably works with audio, audio/visual, or electronic musical instrument equipment in which an audio output signal ceases when either a) a prerecorded program (such as on a tape or CD) finishes; or b) the user ceases interaction with the equipment.

Equipment **10** includes a conventional power supply **12**, and ancillary equipment **14**. Ancillary equipment **14** includes the electronics and mechanisms (such as amplifiers, motors, optics, etc.) necessary to generate an analog or digital audio signal either from a prerecorded medium (such as a tape or CD), or from the input of a user (such as would occur with the use of a musical instrument). Ancillary equipment **14** may also include other power consuming devices (such as displays, lights, LEDs, etc.) that are normally in use when the power switch **22** of equipment **10** is turned on. Thus, the power status or state of ancillary equipment **14** (i.e., whether or not ancillary equipment **14** is on or off) is normally controlled by the user operated power switch **22**

associated with equipment **10**. Equipment **10** may also include power consuming devices (such as clocks, memories, etc.) that are always in use when equipment **10** is plugged in, regardless of whether or not the power switch is on.

Power supply **12** supplies electrical power to ancillary equipment **14** via power coupling device, or relay **16**. Relay **16** may be replaced with a semiconductor switch such as a transistor, or by any other switching device controllable by an input signal. Depending upon the desired configuration, a portion of power supply **12** may be included within ancillary equipment **14**.

Ancillary equipment **14** includes one or more outputs **18** upon which one or more audio output signals appear. Audio output **18** may be coupled directly to an external speaker **20**, or to some other piece of audio equipment such as an amplifier or mixer (not shown). The operation of relay **16** (and thus whether or not ancillary equipment **14** will receive power) is controlled by switch **22**, level detector **24**, sequential circuit **26**, and clock **28**. Power may be supplied to elements **22** through **28** in a conventional manner, such as directly from power supply **12**, or from some other source of electrical energy, such as a battery or capacitor (not shown).

Level detector **24** has an input **30** which is connected to one or more audio outputs **18** of ancillary equipment **14**. Level detector **24** preferably has two output states which are representative of the level of the audio signal detected at input **30**. For example, if the detected audio signal has a level above a predetermined threshold, a logic 1 may be generated at output **32**. If the detected audio signal has a level below a predetermined threshold, a logic 0 may be generated at output **32**. The chosen threshold level should be appropriate for the type of equipment that automatic shut off device **11** is to be used with. For example, with certain types of audio equipment, there may be a certain amount of noise which is generated at the outputs,

regardless of whether or not the audio equipment is "in use" in the conventional sense.

If ancillary equipment **14** can reproduce sound from a prerecorded program (such as from a tape or CD), ancillary equipment **14** may include certain components (such as motors, lasers, etc., not shown) that receive or draw power (or more power) when an audio signal is being generated at output **18**. Thus, such a component would generally be in a "powered on" state when an audio signal is generated at output **18**, and would generally be in a "powered off" state when no audio signal is generated at output **18**. For example, a CD player may include a motor which causes a CD to rotate when the player generates an audio signal output. CD players are typically configured such that this motor turns off after a CD has finished playing.

In equipment **10** including components which are generally powered on only when an audio signal output is being generated, level detector **24** could be coupled to a power or control input of such a component (instead of output **18**), and level detector **24** could be configured such that its two output states reflect whether or not the component it is coupled to is in a powered on or powered off state.

Sequential circuit **26** preferably receives as inputs electrical or other signals received from level detector **24**, clock **28**, and switch **22**. Clock **28** may also be incorporated in sequential circuit **26**. Depending upon the signals received from switch **22** and level detector **24**, sequential circuit **26** generates at its output **34** a voltage which is received by input **36** of relay **16**. If sequential circuit **26** is in a state which indicates that power should be supplied to ancillary equipment **14**, the signal generated at output **34** is of the type that would allow relay **16** to pass power from power supply **12** to ancillary equipment **14**. Otherwise, the voltage or signal generated at output **34** is of the type that would prevent relay **16** from passing power from power supply **12** to ancillary equipment **14**. Again, it should be understood that ancillary equipment **14** can include power consuming

devices that are normally turned on (including audio generating electronics and any associated displays, keyboards, etc.) when the power to equipment **10** is turned on.

The operational requirements of sequential circuit **26** are as follows: at any time, the user of equipment **10** should be able to either turn on or turn off equipment **10** by pressing switch **22**, which is preferably a momentary contact switch in this embodiment. If sequential circuit **26** receives an input from level detector **24** indicating that the audio signal output level of ancillary equipment **14** is below a predetermined threshold, then a timing operation is begun. This timing operation will continue until either: (a) an audio signal having a level above a predetermined threshold is detected; (b) an input is received from switch **22** indicating that power should be turned off immediately; or (c) a predetermined or programmable time-out period has elapsed. Under circumstances (b) and (c), sequential circuit **26** generates an output which will cause relay **16** to shut off power to ancillary equipment **14**.

As will be apparent to those skilled in the art, sequential circuit **26**, which may include both logical and memory elements, may be configured in any of a number of different ways to provide the proper output necessary to control relay **16**. Sequential circuit **26** may be implemented with a registered programmable array logic (PAL) device, or with any other elements which can be combined to form an appropriate sequential circuit. Again, clock **28** may be external to sequential circuit **26**, or may form a part of sequential circuit **26**.

Referring now to **Figure 2**, an alternative embodiment of automatic shut off device **11** is shown. In **Figure 2**, the functions of sequential circuit **26** and clock **28** are performed specifically by the combination of OR gate **40**, timer **42**, AND gate **44**, and memory element or flip flop **46**. Memory element **46** is preferably a positive- or negative- edge triggered DQ flip flop which can be reset or cleared if desired.

Timer 42 may be preprogrammed to measure a certain length of time. The length of time measured may also be programmable by the user of equipment 10. When reset input 48 of timer 42 receives the appropriate signal (i.e., either a logic 0 or a logic 1 signal) timer 42 is reset to zero. In the embodiment shown in Figure 2, timer 42 is reset when reset input 48 receives a logic 1 signal. Reset input 48 receives the output of OR gate 40. OR gate 40 receives as its inputs the output 32 of level detector 24, and the output 50 of switch 22. Switch 22 is preferably a momentary contact switch which generates at its output 50 a single positive going pulse when switch 22 is depressed or otherwise activated. Thus, timer 42 is reset either when switch 22 is depressed, or when level detector 24 generates a logic 1 at its output 32, indicating that the audio signal present at output 18 is above a predetermined threshold.

In a preferred embodiment, timer 42 generates at its output 52 a logic 1 when timer 42 has not yet timed out; and timer 42 generates at its output 52 a logic 0 when it has timed out, i.e., when the predetermined time has elapsed. Output 52 of timer 42 is used as an input by AND gate 44.

Memory element 46 is preferably configured as a divide-by-two counter with the inverted Q output ($\bar{Q}$) fed back into the D input. The Q output is used as an input by AND gate 44. Upon initial power up of equipment 10 (i.e., when power supply 12 first plugged in), memory element 46 may be reset so that it generates a logic 0 at its Q output. Thus, on initial power up, AND gate 44 receives from the Q output of memory element 46 a logic 0. Regardless of what logic signal timer 42 generates at its output 52, AND gate 44 generates at its output 34A a logic 0 which is received by input 36 of relay 16. Thus, as described above, relay 16 prevents power from flowing between power supply 12 and ancillary equipment 14.

At this time, if the user of equipment 10 presses or otherwise activates switch 22, the following events occur: timer 42 is reset, thus generating a logic 1 at its output

52; the Q output of memory element 46 toggles to a logic 1; AND gate 44 generates at its output 34A a logic 1, and relay 16 closes the circuit between power supply 12 and ancillary equipment 14.

If the user of equipment 10 desires to turn the equipment off, switch 22 is depressed or otherwise activated again. When this occurs, timer 42 is again reset, the Q output of memory element 46 toggles to a logic 0, and AND gate 44 generates at its output 34A a logic 0. Again, this causes relay 16 to open the circuit between power supply 12 and ancillary equipment 14, shutting off power to ancillary equipment 14. The user may turn the power on again by pressing switch 22.

If ancillary equipment 14 is in a powered on state but ceases to generate an audio signal at its output 18 (as may occur when a CD has stopped playing, or when the user stops playing a musical instrument) level detector 24 generates at its output 32 a logic 0. If switch 22 is not depressed or otherwise activated, reset input 48 of timer 42 receives a logic 0, and timer 42 begins the timing operation. If switch 22 is not depressed before the timing operation is complete, timer 42 will generate at its output 52 a logic 0 when timing is complete. Thus, AND gate 44 will generate at its output 34A a logic 0, causing relay 16 to shut off power to ancillary equipment 14, as described above. Memory element 46 may be configured such that it is cleared or reset (so that its Q output is at a logic 0) whenever timer 42 generates at its output 52 a logic 0. Again, if the user of equipment 10 wishes to restore power, all he or she needs to do is press or activate switch 22.

Referring now to **Figure** 3, a preferred analog embodiment of automatic shut off device 11 is shown.

Ancillary equipment 14 receives power from power supply 12 via relay 16, in the manner discussed above with respect to **Figures** 1 and 2.

Again, the audio outputs 18 of ancillary equipment 14 may be directly coupled to an external speaker 20, or may

be coupled to another piece of audio equipment such as an amplifier, mixer, recorder, etc.

Output **18** is coupled to an input of amplifier **62**. An output of amplifier **62** is coupled to rectifier **66**, which is in turn coupled to an input of OR gate **68**.

Switch **22** is preferably a toggle switch in this embodiment. The 'ON' contact of switch **22** is connected to switch debouncer **70**, which is in turn coupled to differentiator circuit **72**. The output of differentiator circuit **72** is fed into an input of amplifier **74**. The output of amplifier **74** is coupled to an input of monostable multivibrator (or one-shot) **76** via diode or rectifier **78**. The output of monostable multivibrator **76** is coupled to a second input of OR gate **68**.

The OFF contact of switch **22** is coupled to an input of switch debouncer **80**. The output of switch debouncer **80** is coupled to an input of differentiator **82**. Differentiator **82** generates an output signal which is used as an input by amplifier **84**. The output of amplifier **84** is coupled to an input of monostable multivibrator (or one-shot) **86**. The output of monostable multivibrator **86** controls a transistor switch **88**, which is operatively coupled to discharge the capacitor in parallel RC circuit **90**.

The output of OR gate **68** is coupled to transistor switch **92**. Transistor switch **92** is coupled to RC circuit **90**, and can rapidly charge the capacitor in RC circuit **90** to a predetermined voltage. The output voltage of RC circuit **90** is used as an input by high impedance comparator **94**. The output of comparator **94** controls transistor switch **96**. Transistor switch **96** has an output **34B** which is coupled to input **36** of relay **16**.

The operation of the circuit shown in **Figure 3** is as follows: when switch **22** in the OFF position, relay **16** is turned off and power supply **12** does not provide power to ancillary equipment **14**. When switch **22** is in the ON position, a predetermined voltage (labeled V+ here) appears at the input of switch debouncer **70** in a stepwise fashion.

Switch debouncer **70** removes any switch bounce transient signals. A clean step waveform is then fed from switch debouncer **70** into differentiator **72**. Differentiator **72** produces a single short pulse, which is received by amplifier **74**.

Amplifier **72** then amplifies the pulse to provide a suitable triggering pulse for monostable multivibrator **76**. Rectifier **78** assures that monostable multivibrator **76** only receives triggering pulses of one polarity. Should monostable multivibrator **76** require negative trigger pulses, then rectifier **78** could be oriented in the opposite way.

Monostable multivibrator **76** produces a wide output pulse which is coupled into an input of OR gate **68**. Subsequently, a pulse appears at the output of OR gate **68**. This output pulse is coupled into transistor switch **92**. During the time that transistor switch **92** is ON, the power supply voltage V+ appears at the input to parallel RC circuit **90**, charging the capacitor in the circuit **90**.

Comparator **94** senses the output voltage of RC in circuit **90**, and produces a step voltage at its output, if the output voltage of RC circuit **90** is above a predetermined threshold. This step voltage activates transistor switch **96**, which then turns on relay **16**. The contacts of relay **16** are then closed, thereby allowing power to flow from power supply **12** to ancillary equipment **14**.

When an audio signal above a predetermined level is present at output **18**, this signal is amplified by amplifier **62**, rectified by rectifier **66**, and then presented as an input to OR gate **68**. Depending upon the nature of the audio signal generated by ancillary equipment **14**, OR gate **68** may generate a series of logic 1 pulses, a constant logic 1 output, or a series of logic 1 pulses of varying length. Whenever a logic 1 is generated by OR gate **68**, transistor switch **92** is turned on, and the capacitor in RC circuit **90** is charged. RC circuit **90** is thereby maintained in a fully charged state, which keeps relay **16** in an ON state through the actions of comparator **94** and transistor switch **96**, discussed above.

Should ancillary equipment **14** stop generating an audio output signal, OR gate **68** will generate a logic 0 output, transistor switch **92** will turn off, and RC circuit **90** will discharge. The voltage on the capacitor in RC **90** circuit will decay over a user selected, or preselected time interval until it drops below the threshold required for comparator **94** to stay ON (i.e., to generate a logic 1 output). Comparator **94** will turn OFF (i.e., generate a logic 0 output) thereby turning OFF transistor switch **96** and subsequently turning OFF relay **16**.

If the user of desires to resume operation of equipment **10**, then a cycling of switch **22** from ON to OFF back to ON again will duplicate the aforementioned sequence of events, resulting in re-activation of ancillary equipment **14**.

Ancillary equipment **14** may also be immediately turned OFF by turning switch **22** to OFF. This results in a similar sequence of signals passing through switch debouncer **80**, differentiator **82**, amplifier **84**, rectifier **85** and monostable multivibrator **86**. Transistor switch **88** momentarily grounds the capacitor in RC circuit **90**, thereby turning OFF comparator **94**, then transistor switch **96** and ultimately relay **16**.

It will be understood that certain conventional elements, well known to those skilled in the art, which are necessary to implement the disclosed embodiments (such as certain wiring, buffers, inverters, switch debouncers, etc.) have not been described in detail to avoid obscuring the invention.

The present invention has been described in terms of a preferred embodiment. The invention, however, is not limited to the embodiment depicted and described. Rather, the scope of the invention is defined by the appended claims.

WHAT IS CLAIMED IS:

1. A device for automatically shutting off audio, audio/visual, or electronic musical instrument equipment generating an audio output signal, comprising:

means for detecting the presence of the audio output signal; and

means for shutting off power to the equipment if the audio output signal has not been detected for a predetermined period of time.

2. The device of claim 1 wherein the audio output signal is an analog signal.

3. The device of claim 1 wherein the audio output signal is a digital signal.

4. A method for controlling the supply of power to audio, audio/visual, or electronic musical instrument equipment generating an output signal with a variable level, the method comprising the steps of:

detecting the audio output signal;

beginning a timing operation if the level of the audio output signal falls below a predetermined threshold; and

shutting off the equipment if the level of the output signal does not rise above a predetermined threshold for a predetermined period of time.

5. The method of claim 4 wherein the output signal is an analog audio signal.

6. The method of claim 4 wherein the output signal is a digital audio signal.

7. A device for automatically shutting off audio, audio/visual, or electronic musical instrument equipment generating an audio output signal with a variable level, comprising:

means for detecting the audio output signal;

means for beginning a timing operation if the level of the audio output signal falls below a predetermined threshold; and

means for shutting off the equipment if the level of the audio output signal does not rise above a predetermined threshold for a predetermined period of time.

8. In audio, audio/visual, or electronic musical instrument equipment including a power supply, a user-controlled power switch, and ancillary equipment whose power state is normally controlled by the power switch, the ancillary equipment generating an audio output signal, an automatic shut off device comprising:

a power coupling device coupling the power supply to the ancillary equipment, the power coupling device having a first state in which power is transmitted to the ancillary equipment, and a second state in which power is not transmitted to the ancillary equipment;

a level detector coupled to the audio output signal, the level detector generating a first output if the level of the audio output signal is above a predetermined threshold, and generating a second output if the level of the audio output signal is below a predetermined threshold; and

a sequential circuit having inputs coupled to the power switch and to the level detector;

the sequential circuit having an output which controls the state of the power coupling device;

the sequential circuit configured such that its output will cause the power coupling device to be in its first state if the user has activated the power switch to turn on the audio, audio/visual, or electronic musical instrument equipment, and if the level detector has not generated its second output for more than a predetermined period of time;

the sequential circuit also configured such that its output will cause the power coupling device to be in its

second state if the user has activated the power switch to turn off the audio, audio/visual, or electronic musical instrument equipment, or if the level detector has generated its second output for more than a predetermined period of time.

9. The automatic shut off device of claim 8 wherein the sequential circuit includes both logic and memory elements.

10. The automatic shut off device of claim 8 wherein the sequential circuit includes a timer, a flip flop, and at least one logic gate.

11. The automatic shut off device of claim 8 wherein the user controlled power switch is a momentary contact switch.

12. The automatic shut off device of claim 8 wherein the sequential circuit includes an external clock.

13. The automatic shut off device of claim 8 wherein the sequential circuit includes an internal clock.

14. The automatic shut off device of claim 8 wherein the ancillary equipment generates a digital audio output signal.

15. The automatic shut off device of claim 8 wherein the ancillary equipment generates an analog audio output signal.

16. The automatic shut off device of claim 8 wherein the power coupling device is a relay.

17. The automatic shut off device of claim 8 wherein the power coupling device is a semiconductor device.

18. The automatic shut off device of claim 8 wherein the power coupling device is a transistor.

19. In audio, audio/visual, or electronic musical instrument equipment including a power supply, a user-controlled power switch, and ancillary equipment whose power state is normally controlled by the power switch, the ancillary equipment generating an audio output signal, an automatic shut off device comprising:

a power coupling device coupling the power supply to the ancillary equipment, the power coupling device having a first state in which power is transmitted to the ancillary equipment, and a second state in which power is not transmitted to the ancillary equipment;

means, coupled to the audio output signal, for generating a first output if the level of the audio output signal is above a predetermined threshold, and for generating a second output if the level of the audio output signal is below a predetermined threshold;

an RC circuit, coupled to the means for generating, in which the capacitor is quickly charged when the means for generating generates the first output, and in which the capacitor is slowly discharged when the means for generating generates the second output;

the RC circuit having an output voltage which controls the state of the power coupling device, the power coupling device being in its first state when the output voltage of the RC circuit is above a predetermined threshold, and the power coupling device being in its second state when the voltage of the RC circuit is below a predetermined threshold; and

means for quickly discharging the capacitor in the RC circuit, the means for quickly discharging activated if the user turns off the power switch.

20. The automatic shut off device of claim 19 wherein the user controlled power switch is a toggle switch.

21. The automatic shut off device of claim 19 wherein the ancillary equipment generates an analog audio output signal.

22. The automatic shut off device of claim 19 wherein the ancillary equipment generates a digital audio output signal.

23. The automatic shut off device of claim 19 wherein the power coupling device is a relay.

24. The automatic shut off device of claim 19 wherein the power coupling device is a semiconductor device.

25. The automatic shut off device of claim 19 wherein the power coupling device is a transistor.

26. In audio, audio/visual, or electronic musical equipment generating an audio output signal, and having a component which is generally in a powered on state when the audio output signal is being generated and which is generally in a powered off state when the audio output signal is not being generated, a device for automatically shutting off the audio or audio/visual equipment comprising:

means for detecting whether the component is in a powered on or powered off state; and

means for shutting off power to the equipment if the component is in a powered off state for a predetermined period of time.

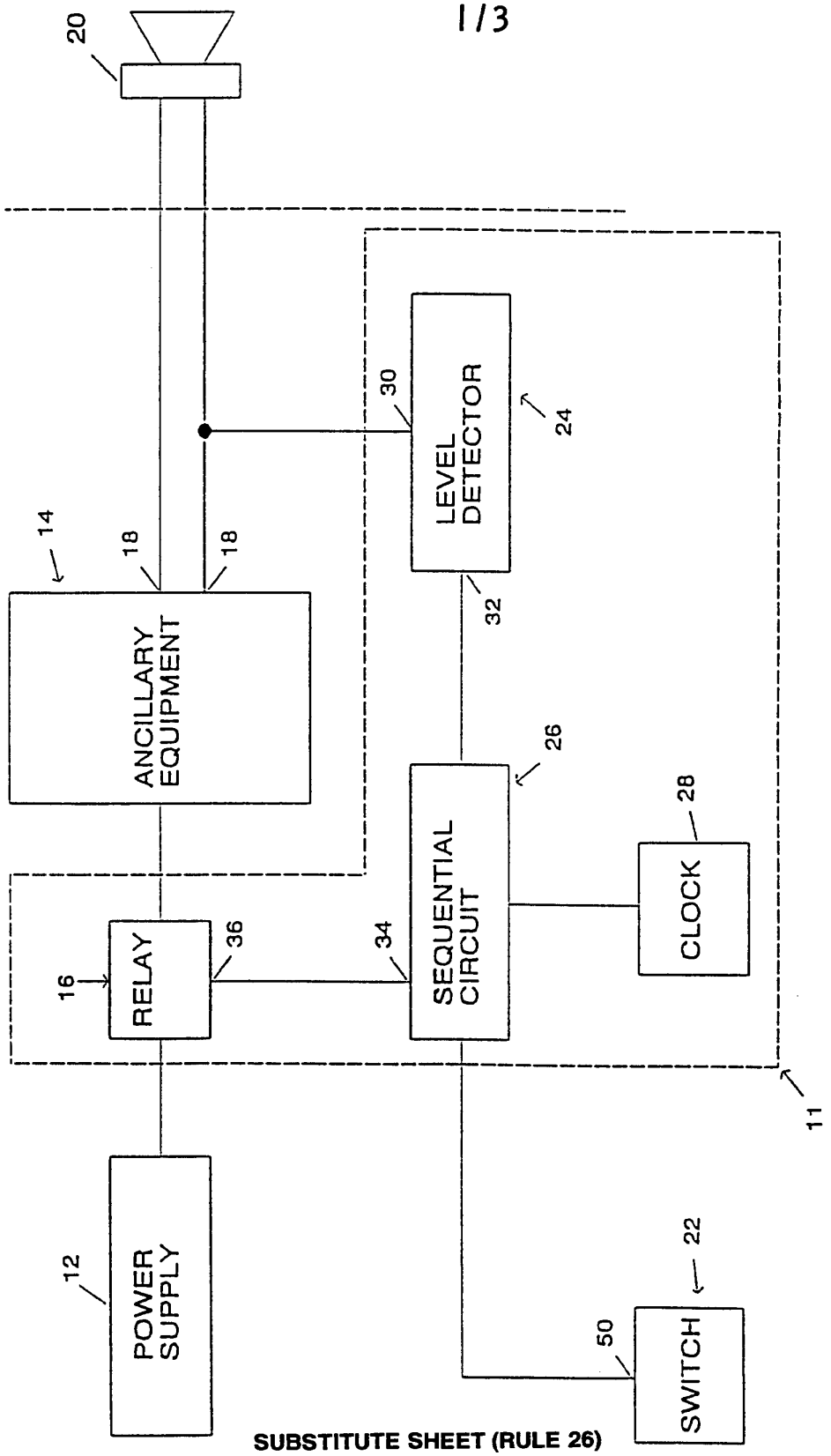

20
LEVEL DETECTOR
30
24
14
18
18
ANCILLARY EQUIPMENT
32
26
28
SEQUENTIAL CIRCUIT
CLOCK
16
RELAY
36
34
11
12
POWER SUPPLY
22
50
SWITCH

FIGURE 1

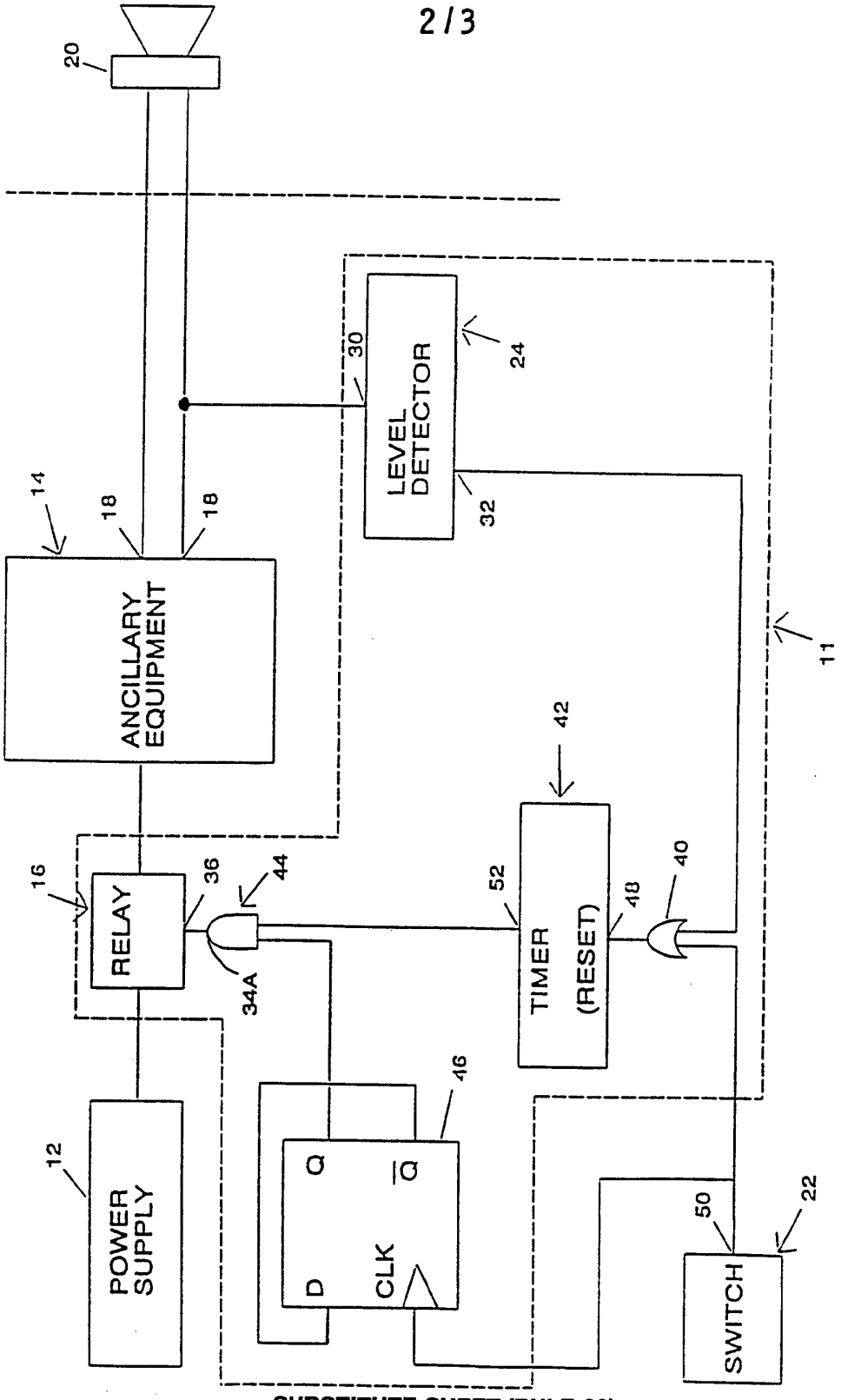

20
LEVEL DETECTOR
24
30
32
14
18
18
ANCILLARY EQUIPMENT
11
42
TIMER (RESET)
40
48
52
16
RELAY
36
44
34A
46
Q
$\overline{Q}$
D
CLK
12
POWER SUPPLY
50
22
SWITCH

FIGURE 2

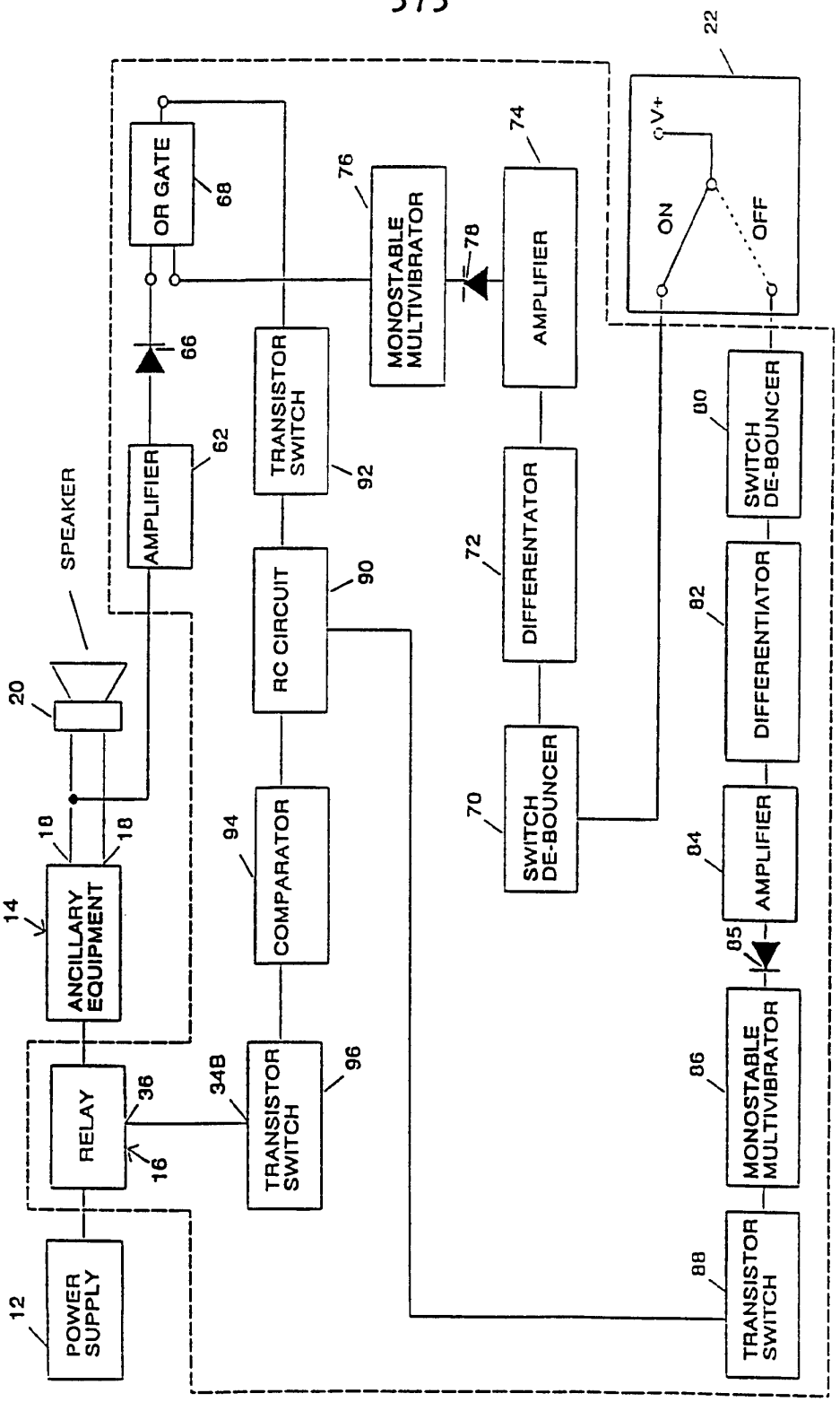

22
V+
ON
OFF
74
AMPLIFIER
76
MONOSTABLE MULTIVIBRATOR
78
OR GATE
68
66
AMPLIFIER
62
TRANSISTOR SWITCH
92
SPEAKER
20
RC CIRCUIT
90
72
DIFFERENTATOR
18
18
14
ANCILLARY EQUIPMENT
94
COMPARATOR
70
SWITCH DE-BOUNCER
80
SWITCH DE-BOUNCER
82
DIFFERENTIATOR
84
AMPLIFIER
85
86
MONOSTABLE MULTIVIBRATOR
34B
36
RELAY
16
TRANSISTOR SWITCH
96
88
TRANSISTOR SWITCH
12
POWER SUPPLY

FIGURE 3

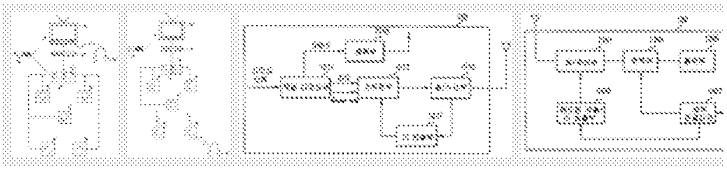
Transmitter/receiver of wireless headphone's signal of the home theater

Abstract

translated from Korean

The present invention is a home theater of the system relates to a wireless headphone signal transmission / reception apparatus, in particular a video / to the audio signal transmitted from the audio reproduction device and to generate audio signals for mixing with a wireless headphone audio signals and the signals in channel speaker , depending on the connection or absence of the wireless headphone transmission in a wireless speaker comprising an audio receiver for transmitting an audio signal or an audio signal for the radio headphone of the wireless speaker of the audio signal of the channel speakers wirelessly, wireless speakers, a transmission terminal of the wireless headphone if it does not, and outputs an audio signal of the speaker received from the audio receiver and a wireless audio signal for the received wireless headphone when the transmission terminal of the wireless headphone is connected passing through the headphone transmission terminal. Therefore, the present invention can transmit the audio signal of the audio receiver in the wireless speaker close to a user's location, the wireless headphone mounted.
Home theater system, wireless speakers, wireless headphones

Images (4)



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Patent Kipris

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Other languages: Korean

Inventor: 김철웅

Worldwide applications

2004 · KR

Application KR1020040079573A events

2004-10-06 · Application filed by 주식회사 대우일렉트로닉스

2004-10-06 · Priority to KR1020040079573A

2006-04-11 · Publication of KR20060030713A

Info: Legal events, Similar documents, Priority and Related Applications

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Classifications

- H04R5/02 Spatial or constructional arrangements of loudspeakers

View 2 more classifications

Claims (3)

Hide Dependent

translated from Korean

1. A home theater system having at least one or more radio speakers,

   Of the radio the multi-channel speaker, depending on the connection or absence of headphones transmit audio signal is generating an audio signal for wireless headphones mix the audio signals and the signals in channel speaker, and at the wireless speaker transmitted from the video / audio playback devices of the audio signal comprises an audio receiver for transmitting an audio signal or an audio signal for the radio headphone of the wireless speaker over the air

   The wireless speaker if the transmission terminal of the wireless headset may not be connected to output the audio signal of the speaker received from the audio receiver, and a transmission terminal of the wireless headphone connected to receive the wireless headphone to the audio signal, the wireless headphone wireless headphone signal transmission / reception device of a home theater system, characterized in that passing through the transmission terminal.

   2. According to claim 1,

      The audio receiver the video / audio playback device an audio signal to a multi-channel speaker of the audio signal and these signals for muting the radio and the channel decoding unit to generate the audio signal for headphone and the wireless speaker of the audio signal or the radio transmission from the transmitting the audio signals delivered to the switching unit for switching to pass the audio signal for headphone, through parts of the switching to the wireless speaker and receives receiving the ID from the wireless speaker transmitter / receiver and, the ID received by the transmitting / receiving unit wireless headphone signal transmission / reception device of a home theater system, comprising: to determine whether the wireless headphone ID determination unit ID to control the switching unit.

   3. According to claim 1,

      The wireless speaker is the a and transmits the ID to the audio receiver and the transmitter / receiver receiver, receiving the audio signal from the audio receiver, amplifier section and the amplified audio simoyung wireless headphone audio signal for amplifying the received audio signal and an external connection terminal for wireless transmission to the headphones transmission terminal, is connected to the external connection terminal and the wireless headphone transmission if the terminal is connected sends out the ID of the wireless speaker to the transmission / reception section and said external connection terminal and the wireless headphone transmission terminal if no wireless headphone signal transmission / reception apparatus of the wireless headphone ID home theater system, comprising the transmitting / receiving headphone detection / ID transmission section for sending out to.

Description

translated from Korean

Home wireless headphone signal transmission / reception apparatus of the theater system {TRANSMITTER / RECEIVER OF WIRELESS HEADPHONE'S SIGNAL OF THE HOME THEATER}

1 is a diagram showing a general configuration of a home theater system according to the prior art,

Figure 2 is a diagram showing a general configuration of a home theater system according to one embodiment of the invention,

Figures 3a and 3b is a view of the internal structure of the audio receiver and the rear speakers of a home theater system according to an embodiment of the present invention.

<Description of the Related Art>

100: Television 110: audio / video playback apparatus

120: 131-139 Audio Receiver: 5.1-channel speaker

140: remote controller 150: wireless headphone

The present invention relates to a home theater system, in particular using a wireless loudspeaker for a radio headphone signal transmission / reception device of a home theater system that is capable of outputting audio signals to wireless headphones.

Home theater system means that just moved into the home video system and the sound system of the theater. In other words, a home theater system, and three-dimensional appearance to the movie theater in the home and feeling a spacious sound composed with the video equipment and audio equipment. A video apparatus in a home theater system, for example, a television, a screen such as a, and the multi-channel speakers and the audio receiver, etc., and video / audio reproduction for reproducing a reproduction medium such as a further DVD to an audio device, the device is connected do.

1 is a view showing a general configuration of a home theater system according to the prior art.

1, s is the television 10, the video / audio playback apparatus 20 such as a DVD connected and a multi-channel, for example, a speaker of a 5.1 channel via the audio receiver 30 in the player 20 (41, 43, 45, 47, 48, 49) are connected. And the remote control 50 as may adjust the operation of the television 10 or the audio receiver (30). In addition, the headphones 60 are wired connection jack (jack), the through television 10 directly to the television 10, or to listen to the audio signal, a speaker of a 5.1 channel (41, 43, 45, 47, 48 output from the connection to, connected to any speaker in 49) to allow the audio signal that is output from the speaker.

And two speakers in the speaker (47) located in the (43, 45) and a center (center) in the front right and left (front left, right) from the speakers of 5.1 channels, two located at the rear left and right (rear left, right) the speakers 48 and 49 are both each other by outputting an audio signal of the same frequency, and outputs the audio receiver 30 is integrated with the subwoofer audio signals (sub-woofer), speaker (41) for a low frequency provides an audio signal of 5.1-channels are separated. Moreover, the speaker (43, 45, 48, 49) located in the front and rear left and right are output with a stereo audio signal of left and right channels, the speaker 47 is located at the center and output an audio signal such as a movie lines, sub-woofer speaker for 41 in which it is possible to provide a three-dimensional sound to the listener, since the audio signal of the grand bass output.

But that was only the users plugged into the jack on the external connection terminal of the direct television to listen to audio from a home theater system to the headphones. However, there were inconvenient to use because there is the case of headphones used by a wired connection to the location constraints.

For this, nowadays there is a limit in the reception range of the wireless headphone plug into use because the wireless transmission terminal to a television, or audio receiver, but using a wireless headphone, a video device of a home theater system.

An object of the present invention is to detect a wireless headphones or without the radio speakers located at the left or right rear are in-channel speaker to solve the problems of the prior art by transmitting an audio signal for a wireless headset to the speaker over the air rear speakers at close to a user's location, the wireless headphone attached to the wireless headphone to provide a wireless headphone signal transmission / reception device of a home theater system that can transmit audio signals.

The present invention in order to attain the object is a home theater system having at least one or more radio speakers, video / audio signals of the mixed audio signal for the radio headphone of the audio signals and the signals in channel speaker transmitted from the audio reproduction apparatus generated, and comprising an audio receiver that the transmit audio signal or an audio signal for the radio headphone of the wireless speaker of the audio signal of the channel speaker over the air depending on the connection or absence of the wireless headphone transmission in a wireless speakers, wireless speakers, a wireless headphone It characterized in that if the transmission terminal is not connected to output the audio signal of the speaker received from the audio receiver and a wireless audio signal for the received wireless headphone when the transmission terminal of the wireless headphone is connected passing through the headphone transmission terminal.

Hereinafter, self skilled illustrated in greater detail to be easily performed in the technical field of the invention with reference to the annexed drawings the preferred embodiments of the present invention.

2 is a view showing a general configuration of a home theater system according to an embodiment of the present invention.

2, the grooves according to the invention theater system includes and and and video equipment, such as television 100, the video / audio playback apparatus 110, such as a DVD, an audio receiver 120, the multi-channel speaker (131 , 133, 135, 137, 138, 139), and comprises a wireless headset 150. The non-described reference numeral 140 represents a remote controller for operating the television 100 or the audio receiver (120).

Video / audio playback apparatus 110 television 100 and the audio receiver 120 is connected to the DVD or the like in the reproduction, while outputting the reproduced video signal to the television 100, an audio signal from the reproducing medium, an audio receiver in the DVD, etc. and outputs (120).

Passed to the audio receiver 120 includes a video / audio to the audio signal transmitted from the playback apparatus 110 after processing the signal is them after amplification at a constant size-channel speaker (131, 133, 135, 137, 138, 139) do. At this time, if the out of the channel speakers front speakers are wired, and the center and when the rear speakers are wireless to wired to an audio receiver 120, for example the front of the left and right speakers (133, 135) of the 5.1-channel audio signals of the channel transmission, and wirelessly to the center speaker 137 and the rear left / right speakers (138, 139) provides a three-dimensional sound by transmitting an audio signal of the channel.

Moreover, an audio receiver 120 in accordance with the present invention transmits the audio signal for the radio headphone as well as the audio signals of the rear channel speakers to the rear left or right speaker (138, 139). That is, the audio receiver 120 is transmitted over the air to the rear speakers (138, 139), the wireless headphone ID signal in response to the rear audio signal instead of the wireless audio signals rear speakers (138, 139) for the headphones on the speaker channel transmission in do.

The rear left or right speaker (138, 139) is audio for the detecting, if any becomes plugged into the wireless headphone transmission terminal transmits a wireless headphone ID signal to an audio receiver 120, the transmission from the audio receiver 120, a wireless headphone receives the signal after amplifying this to a predetermined size over the wireless headphone transmission terminal transmits wirelessly to the wireless headphones.

Figures 3a and 3b is a view showing the internal structure of the audio receiver and the rear speakers of a home theater system according to an embodiment of the present invention.

Referring to Figure 3a, the audio receiver 120 includes a channel decoding unit 1211, a switching unit 1213 of the home theater system according to the present invention, the transmission / reception unit 1215, and ID determination unit 1217 and it includes an amplification section (1219).

Channel decoding unit 1211 decodes a video / audio playback apparatus 110, the audio signal for each channel of the multi-channel speaker audio signal (CH0-3) playing on. And all of the channel-based audio signals by the mixing (mixing) generates for a wireless headphone audio signals (down mix). Here, the audio signal for each channel will refer to audio signals of the front channel speaker, the center speaker channel, subwoofer channel, the channel for the rear speakers.

The switching unit 1213 is ID determining unit 1217 switches to be transmitted to the transmission / reception unit 1215, an audio signal (CH3) of the rear speaker channel wireless speakers in accordance with the control or of the radio in place of an audio signal of a rear speaker channel an audio signal for headphone switches to be delivered to the transmission / reception unit 1215.

A transmission / reception unit 1215 transmits it to convert the audio signal (CH3) of the rear channel speaker is passed through the switching unit 1213 to a wireless signal (e.g., RF, Bluetooth, etc.). And passes within the receiving receives the signals transmitted from the wireless rear speaker signals rear speaker or the wireless headphone ID ID to the ID determining unit (1217).

ID determining unit 1217 is a control signal for transmitting the wireless head phones audio signal to the switching section 1213 when the ID transmitted from the receiving unit 1215, wireless headphones ID to determine whether the rear speakers ID or wireless headphones ID send.

And an amplification section 1219 is a wireless speaker and the remaining speakers, wired, except for the rear speakers, that is transmitted to the front, subwoofer for, the center speaker and an audio signal (CH0-2) of the speaker channel is amplified by a predetermined size associated with them by wire do.

Referring to Figure 3b, the rear left or right speaker 139 of the home theater system according to the present invention is a transmission / reception unit (1391), and an amplification section (1393) and an output unit 1395, and the external connection terminal (1397), and it includes a headphone detection / ID transmission unit (1399).

A transmission / reception unit (1391) transmits the wireless headphone ID transmitted from the rear speaker audio signal or wireless headphones detection / ID transmission unit (1399) receives receiving the audio signal for transmission from the audio receiver to the audio receiver.

An amplification section (1393) outputs the audio signal of the rear speaker channel amplifier which amplifies an audio signal or an audio signal for the radio headphone of the rear speaker channels received by the receiving unit (1391) to a certain size through the output unit 1395, an audio signal for the amplified wireless headphones via a wireless headphone transmission terminal 152 connected to the external connection terminal (1397) and transmits to the wireless headset 150.

Headphone detection / case ID transmitting unit (1399) is a wireless headphone transmission terminal 152 is not connected via an external connection terminal (1397) by sending a rear speaker ID to the transmission / reception unit (1391) transmits a rear speaker ID to an audio receiver do. If the wireless headphone transmission terminal 152 connected via an external connection terminal (1397) by sending a wireless headphone ID transmission / reception unit (1391) transmits the wireless headphone to the audio receiver ID.

Thus, a home theater audio receiver and the rear speakers of the system according to the embodiment is configured operates as follows.

Audio receiver 120 of the home theater system, the channel and decoded by the video / audio playback apparatus 110, the audio signal for each channel of the multi-channel speaker audio signal (CH0-3) play in the through-channel decoding unit 1211 it generates a specific audio signal (down mix) for all of the audio signal (CH0-3) mixing a wireless headphone.

And to the audio receiver 120 is amplified portion 1219 remaining wired speakers, that is, the front, the audio signal (CH0-2) of the sub-woofer, center channel for other than the wireless speaker the rear speakers through an amplifier to a certain size it it passes to the speakers connected to the wire.

Audio receiver 120 when an ID received from the transmission / reception unit 1215 via the ID determining unit 1217 the rear speakers ID or wireless headphones ID is determined by the rear speakers ID the received ID of the switching portion (1213,) to pass through an audio signal (CH3) of the rear speakers, channel decoding in channel decoding section 1211 to the transmission / reception unit 1215 and transmits it over the air.

On the other hand, to transfer the wireless headphone audio signals (down mix) generated by the switching unit 1213-channel decoding unit 1211 controls the case where the received ID be a wireless headphone ID to the transmission / reception unit 1215, the rear speakers to transmit the signal over the air.

The outputs for the rear speakers (139) is a transmission / reception unit (1391), the rear amplifier part (1393), one output section (1395) after it is amplified by a predetermined size through when the audio signal of the channel received by the speaker.

And the rear speakers 139 transmitting / receiving (1391) the wireless headphone amplifier section (1393), a wireless headphone transmission terminal (152, after amplified to a predetermined size associated with it to the external connection terminal (1397) via a case in which the audio signal is received to) it is transmitted wirelessly to the wireless headset 150 through the.

On the other hand, the present invention is the air, only the rear speakers in a 5.1-channel speaker, and the other speakers has been described as an example a home theater system composed of a wire, a number of by those skilled in the art within the spirit and scope of the invention as set forth in the claims below it can be modified.

As it described above, the present invention is to detect the connection or absence of wireless headphones for wireless speakers located at the left or right rear from the multi-channel speakers of a home theater system with wireless headphones by transmitting an audio signal for a wireless headset to the speaker over the air because the plugs into the wireless transmission terminal close to the rear speaker on the user's location can increase the user's convenience of use.

Similar Documents

Publication	Publication Date	Title
US8099883B2	2012-01-17	Detecting the repositioning of an earphone using a microphone and associated action

US6487296B1	2002-11-26	Wireless surround sound speaker system
EP1146778A2	2001-10-17	Digital wireless premises audio system and method of operation thereof
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US20130024018A1	2013-01-24	Multimedia control method and multimedia control system
US6118876A	2000-09-12	Surround sound speaker system for improved spatial effects
JP4792156B2	2011-10-12	Voice control system with microphone array
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US8090115B2	2012-01-03	Transmitting/receiving system, transmitting device, and device including speaker
CN103826178B	2014-06-11	Smart speakers
US9467793B2	2016-10-11	Systems, methods, and apparatus for recording three-dimensional audio and associated data
JP2840691B2	1998-12-24	Audio playback device
US8705780B2	2014-04-22	Audio apparatus, audio signal transmission method, and audio system
JP4304627B2	2009-07-29	Sound system
CN1149988C	2004-05-12	Audio signal processor and audio device
US7483538B2	2009-01-27	Wireless and wired speaker hub for a home theater system
KR20090103953A	2009-10-01	Wireless audio sharing
US5708719A	1998-01-13	In-home theater surround sound speaker system
US6741708B1	2004-05-25	Acoustic system comprised of components connected by wireless
CN101127987A	2008-02-20	Audio system employing multiple mobile devices in concert
JP2003522472A	2003-07-22	The use of voice-to-remaining audio (vra) in consumer applications
CN1477736A	2004-02-25	Wireless multichannel professional acoustic system
CN102272828B	2017-02-08	Distributed spatial audio decoder
CN1819470A	2006-08-16	Apparatus for outputting monaural and stereophonic sound for mobile communication terminal
CN100423613C	2008-10-01	Reproducing device for multiple sound channel signals

Priority And Related Applications

Priority Applications (1)

Application	Priority date	Filing date	Title
KR1020040079573A	2004-10-06	2004-10-06	Transmitter/receiver of wireless headphone's signal of the home theater

Applications Claiming Priority (1)

Application	Filing date	Title
KR1020040079573A	2004-10-06	Transmitter/receiver of wireless headphone's signal of the home theater

Legal Events

Date	Code	Title	Description
2009-11-07	WITN	Withdrawal due to no request for examination	

Concepts

machine-extracted

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transmitter	title	1	0

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심사청구 : 없음

(54) 홈 씨어터 시스템의 무선 헤드폰 신호 송/수신 장치

요약

본 발명은 홈 씨어터 시스템의 무선 헤드폰 신호 송/수신 장치에 관한 것으로, 특히 비디오/오디오 재생 장치에서 전달된 오디오 신호를 다채널 스피커의 오디오 신호와 이들 신호를 믹싱한 무선 헤드폰용 오디오 신호를 생성하고, 무선 스피커에서 전송된 무선 헤드폰의 연결 유무에 따라 다채널 스피커의 오디오 신호 중 무선 스피커의 오디오 신호 또는 무선 헤드폰용 오디오 신호를 무선으로 전송하는 오디오 리시버를 포함하며, 무선 스피커는 무선 헤드폰의 송신 단자가 연결되지 않을 경우 오디오 리시버로부터 수신된 해당 스피커의 오디오 신호를 출력하고, 무선 헤드폰의 송신 단자가 연결될 경우 수신된 무선 헤드폰용 오디오 신호를 무선 헤드폰 송신 단자를 통해 전달한다. 그러므로 본 발명은 무선 헤드폰을 장착한 사용자 위치에 가까운 무선 스피커에서 오디오 리시버의 오디오 신호를 전송할 수 있다.

대표도

도 2

색인어

홈 씨어터 시스템, 무선 스피커, 무선 헤드폰

명세서

도면의 간단한 설명

도 1은 종래 기술에 의한 홈 씨어터 시스템의 개략적인 구성을 나타낸 도면,

도 2는 본 발명의 일 실시예에 따른 홈 씨어터 시스템의 개략적인 구성을 나타낸 도면,

도 3a 및 도 3b는 본 발명의 일 실시예에 따른 홈 씨어터 시스템의 오디오 리시버 및 후방 스피커의 내부 구성을 각각 나타낸 도면.

<도면의 주요부분에 대한 부호의 설명>

100 : 텔레비전 110 : 비디오/오디오 재생 장치

120 : 오디오 리시버 131~139 : 5.1채널 스피커

140 : 리모컨 150 : 무선 헤드폰

발명의 상세한 설명

발명의 목적

발명이 속하는 기술 및 그 분야의 종래기술

본 발명은 홈 씨어터 시스템에 관한 것으로서, 특히 무선 스피커를 이용하여 무선 헤드폰에 오디오 신호를 출력할 수 있는 홈 씨어터 시스템의 무선 헤드폰 신호 송/수신 장치에 관한 것이다.

홈 씨어터 시스템은 극장의 영상 시스템과 사운드 시스템을 그대로 가정으로 옮긴 것을 의미한다. 즉, 홈 씨어터 시스템은 가정에서도 영화관의 입체감 있고 웅장한 사운드를 느낄 수 있도록 비디오 기기와 오디오 기기를 함께 구성하고 있다. 홈 씨어터 시스템을 구성하는 비디오 기기로는 예를 들어, 텔레비전, 스크린 등이 있으며 오디오 기기로는 다채널 스피커와, 오디오 리시버 등이 있으며 추가적으로 DVD 등의 재생 매체를 재생하는 비디오/오디오 재생 장치가 연결된다.

도 1은 종래 기술에 의한 홈 씨어터 시스템의 개략적인 구성을 나타낸 도면이다.

도 1을 참조하면, 텔레비전(10)에 DVD 등의 비디오/오디오 재생 장치(20)가 연결되어 있으며 상기 재생 장치(20)에 오디오 리시버(30)를 통해서 다채널, 예컨대 5.1채널의 스피커들(41, 43, 45, 47, 48, 49)이 연결되어 있다. 그리고 리모컨(50)으로는 텔레비전(10) 또는 오디오 리시버(30)의 작동을 조정할 수 있다. 또한 헤드폰(60)은 유선 연결잭(jack)을 통해서 텔레비전(10)에 연결하여 직접 텔레비전(10)에서 출력되는 오디오 신호를 들을 수 있거나, 5.1채널의 스피커(41, 43, 45, 47, 48, 49) 중에서 어느 스피커에 연결하여 해당 스피커에서 출력되는 오디오 신호를 들을 수 있도록 한다.

5.1채널의 스피커들 중에서 전방 좌우(front left, right)에 위치한 두 개의 스피커들(43, 45)과, 중앙(center)에 위치한 스피커(47)와, 후방 좌우(rear left, right)에 위치한 두 개의 스피커들(48, 49)은 모두 동일한 주파수의 오디오 신호를 출력하고, 오디오 리시버(30)와 일체화된 서브우퍼(sub-woofer)용 스피커(41)는 낮은 주파수의 오디오 신호를 출력함으로써 서로 분리되는 5.1채널의 오디오 신호를 제공한다. 더욱이 전방 및 후방 좌우에 위치한 스피커(43, 45, 48, 49)에서는 좌우 채널의 스테레오 오디오 신호가 출력되고, 중앙에 위치한 스피커(47)에서는 영화 대사 등의 오디오 신호가 출력되고, 서브우퍼용 스피커(41)에서는 웅장한 중저음의 오디오 신호가 출력되기 때문에 입체감있는 사운드를 청취자에게 제공할 수 있다.

그런데 사용자가 헤드폰으로 홈 씨어터 시스템의 오디오를 청취하기 위해서는 직접 텔레비전의 외부 기기 연결 단자에 연결 잭을 꽂아야만 하였다. 하지만 유선으로 연결해서 사용하는 헤드폰의 경우 위치 제약이 있기 때문에 사용하기가 불편한 문제점이 있었다.

이를 위하여 현재에는 무선 헤드폰을 사용하고 있지만, 홈 씨어터 시스템의 비디오 기기인 텔레비전 또는 오디오 리시버에 무선 송신 단자를 꽂아서 사용해야 하기 때문에 무선 헤드폰의 수신 범위에 한계가 있었다.

발명이 이루고자 하는 기술적 과제

본 발명의 목적은 상기와 같은 종래 기술의 문제점을 해결하기 위하여 다채널 스피커 중에서 후방 좌측 또는 우측에 위치한 무선 스피커에 무선 헤드폰의 연결 유무를 검출하여 해당 스피커에 무선 헤드폰용 오디오 신호를 무선으로 전송함으로써 무선 헤드폰을 장착한 사용자 위치에 가까운 후방 스피커에서 무선 헤드폰으로 오디오 신호를 전송할 수 있는 홈 씨어터 시스템의 무선 헤드폰 신호 송/수신 장치를 제공하는데 있다.

상기 목적을 달성하기 위하여 본 발명은 적어도 하나 이상의 무선 스피커를 갖는 홈 씨어터 시스템으로서, 비디오/오디오 재생 장치에서 전달된 오디오 신호를 다채널 스피커의 오디오 신호와 이들 신호를 믹싱한 무선 헤드폰용 오디오 신호를 생성하고, 무선 스피커에서 전송된 무선 헤드폰의 연결 유무에 따라 다채널 스피커의 오디오 신호 중 무선 스피커의 오디오 신호 또는 무선 헤드폰용 오디오 신호를 무선으로 전송하는 오디오 리시버를 포함하며, 무선 스피커는 무선 헤드폰의 송신 단자가 연결되지 않을 경우 오디오 리시버로부터 수신된 해당 스피커의 오디오 신호를 출력하고, 무선 헤드폰의 송신 단자가 연결될 경우 수신된 무선 헤드폰용 오디오 신호를 무선 헤드폰 송신 단자를 통해 전달하는 것을 특징으로 한다.

발명의 구성 및 작용

이하, 본 발명의 가장 바람직한 실시예를 첨부한 도면을 참조하여 본 발명의 기술분야에서 통상의 지식을 가진 자가 용이하게 실시할 수 있도록 더욱 상세히 설명하기로 한다.

도 2는 본 발명의 일 실시예에 따른 홈 씨어터 시스템의 개략적인 구성을 나타낸 도면이다.

도 2를 참조하면, 본 발명에 따른 홈 씨어터 시스템은 텔레비전(100) 등의 비디오 기기와, DVD 등의 비디오/오디오 재생 장치(110)와, 오디오 리시버(120)와, 다채널 스피커들(131, 133, 135, 137, 138, 139)과, 무선 헤드폰(150)을 포함한다. 이때 미설명된 도면 부호 140은 텔레비전(100) 또는 오디오 리시버(120)를 작동시키기 위한 리모컨을 나타낸다.

DVD 등의 비디오/오디오 재생 장치(110)는 텔레비전(100)과 오디오 리시버(120)에 연결되어 DVD 등의 재생 매체로부터 재생된 비디오 신호를 텔레비전(100)에 출력하면서 재생된 오디오 신호를 오디오 리시버(120)에 출력한다.

오디오 리시버(120)는 비디오/오디오 재생 장치(110)에서 전달된 오디오 신호를 신호 처리한 후에 일정 크기로 증폭한 후에 이를 다채널 스피커들(131, 133, 135, 137, 138, 139)에 전달한다. 이때 만약 다채널 스피커들 중에서 전방 스피커가 유선이며 중앙 및 후방 스피커가 무선일 경우 오디오 리시버(120)는 예컨대 5.1채널의 전방의 좌측 및 우측 스피커(133, 135)에 유선으로 해당 채널의 오디오 신호를 전달하고, 중앙 스피커(137)와 후방 좌측/우측 스피커들(138, 139)에 무선으로 해당 채널의 오디오 신호를 전송하여 입체감있는 사운드를 제공한다.

더욱이 본 발명에 따른 오디오 리시버(120)는 후방 좌측 또는 우측 스피커들(138, 139)에 후방 스피커 채널의 오디오 신호뿐만 아니라 무선 헤드폰용 오디오 신호를 전송한다. 즉, 오디오 리시버(120)는 후방 스피커(138, 139)에서 전송된 무선 헤드폰 ID 신호에 응답하여 후방 스피커 채널의 오디오 신호 대신에 무선 헤드폰용 오디오 신호를 후방 스피커(138, 139)에 무선으로 전송한다.

후방 좌측 또는 우측 스피커들(138, 139)은 무선 헤드폰 송신 단자가 꽂아져 있을 경우 이를 검출하여 무선 헤드폰 ID 신호를 오디오 리시버(120)에 전송하고, 오디오 리시버(120)에서 전송된 무선 헤드폰용 오디오 신호를 수신받아 이를 일정 크기로 증폭한 후에 무선 헤드폰 송신단자를 통해 무선 헤드폰에 무선으로 전송한다.

도 3a 및 도 3b는 본 발명의 일 실시예에 따른 홈 씨어터 시스템의 오디오 리시버 및 후방 스피커의 내부 구성을 각각 나타낸 도면이다.

도 3a를 참조하면, 본 발명에 따른 홈 씨어터 시스템의 오디오 리시버(120)는 채널 디코딩부(1211)와, 스위칭부(1213)와, 송/수신부(1215)와, ID 판별부(1217)와, 증폭부(1219)를 포함한다.

채널 디코딩부(1211)는 비디오/오디오 재생 장치(110)에서 재생된 오디오 신호를 다채널 스피커의 채널별 오디오 신호(CH0-3)로 디코딩한다. 그리고 채널별 오디오 신호를 모두 믹싱(mixing)하여 무선 헤드폰용 오디오 신호(down mix)를 생성한다. 여기서, 채널별 오디오 신호는 전방 스피커 채널, 중앙 스피커 채널, 서브 우퍼용 스피커 채널, 후방 스피커 채널의 오디오 신호를 일컫는 것이다.

스위칭부(1213)는 ID 판별부(1217)의 제어에 따라 무선 스피커인 후방 스피커 채널의 오디오 신호(CH3)가 송/수신부(1215)에 전달되도록 스위칭하거나, 후방 스피커 채널의 오디오 신호 대신에 무선 헤드폰용 오디오 신호가 송/수신부(1215)에 전달되도록 스위칭한다.

송/수신부(1215)는 스위칭부(1213)를 통해 전달된 후방 스피커 채널의 오디오 신호(CH3)를 무선 신호(예컨대 RF, 블루투스 등)로 변환하여 이를 송신한다. 그리고 무선인 후방 스피커로부터 전송된 신호를 수신받아 수신된 신호내 후방 스피커 ID 또는 무선 헤드폰 ID를 ID 판별부(1217)에 전달한다.

ID 판별부(1217)는 수신부(1215)로부터 전달된 ID가 후방 스피커 ID 또는 무선 헤드폰 ID인지를 판별하여 무선 헤드폰 ID일 경우 스위칭부(1213)에 무선 헤드폰용 오디오 신호를 전달하기 위한 제어 신호를 보낸다.

그리고 증폭부(1219)는 무선 스피커인 후방 스피커를 제외한 나머지 유선 스피커, 즉 전방, 서브우퍼용, 중앙 스피커 채널의 오디오 신호(CH0-2)를 일정 크기로 증폭하여 이를 유선으로 연결된 해당 스피커에 전달한다.

도 3b를 참조하면, 본 발명에 따른 홈 씨어터 시스템의 후방 좌측 또는 우측 스피커(139)는 송/수신부(1391)와, 증폭부(1393)와, 출력부(1395)와, 외부 연결단자(1397)와, 헤드폰 검출/ID 송출부(1399)를 포함한다.

송/수신부(1391)는 오디오 리시버에서 전송된 후방 스피커 채널의 오디오 신호 또는 무선 헤드폰용 오디오 신호를 수신받으며 헤드폰 검출/ID 송출부(1399)에서 송출된 무선 헤드폰 ID를 오디오 리시버에 송신한다.

증폭부(1393)는 수신부(1391)에서 수신된 후방 스피커 채널의 오디오 신호 또는 무선 헤드폰용 오디오 신호를 일정 크기로 증폭하여 증폭된 후방 스피커 채널의 오디오 신호를 출력부(1395)를 통해 출력하고, 증폭된 무선 헤드폰용 오디오 신호를 외부 연결 단자(1397)에 연결된 무선 헤드폰 송신 단자(152)를 통해 무선 헤드폰(150)에 전송한다.

헤드폰 검출/ID 송출부(1399)는 외부 연결 단자(1397)를 통해 무선 헤드폰 송신 단자(152)가 연결되지 않을 경우 후방 스피커 ID를 송/수신부(1391)에 보내서 후방 스피커 ID를 오디오 리시버에 전송한다. 만약 외부 연결 단자(1397)를 통해 무선 헤드폰 송신 단자(152)가 연결될 경우 무선 헤드폰 ID를 송/수신부(1391)에 보내서 무선 헤드폰 ID를 오디오 리시버에 전송한다.

이와 같이 구성된 일 실시예에 따른 홈 씨어터 시스템의 오디오 리시버 및 후방 스피커는 다음과 같이 작동한다.

홈 씨어터 시스템의 오디오 리시버(120)는 채널 디코딩부(1211)를 통해 비디오/오디오 재생 장치(110)에서 재생된 오디오 신호를 다채널 스피커의 채널별 오디오 신호(CH0-3)로 디코딩하면서 상기 채널별 오디오 신호(CH0-3)를 모두 믹싱한 무선 헤드폰용 오디오 신호(down mix)를 생성한다.

그리고 오디오 리시버(120)는 증폭부(1219)를 통해 무선 스피커인 후방 스피커를 제외한 나머지 유선 스피커, 즉 전방, 서브우퍼용, 중앙 스피커 채널의 오디오 신호(CH0-2)를 일정 크기로 증폭하여 이를 유선으로 연결된 해당 스피커에 전달한다.

오디오 리시버(120)는 ID 판별부(1217)를 통해 송/수신부(1215)에서 수신된 ID가 후방 스피커 ID 또는 무선 헤드폰 ID인지를 판별하여 상기 수신된 ID가 후방 스피커 ID일 경우 스위칭부(1213)를 통해서 채널 디코딩부(1211)에서 디코딩된 후방 스피커 채널의 오디오 신호(CH3)를 송/수신부(1215)에 전달하여 이를 무선으로 전송한다.

반면에, 상기 수신된 ID가 무선 헤드폰 ID일 경우 스위칭부(1213)를 제어하여 채널 디코딩부(1211)에서 생성된 무선 헤드폰 오디오 신호(down mix)를 송/수신부(1215)에 전달하여 후방 스피커에 해당 신호를 무선으로 전송한다.

그러면 후방 스피커(139)는 송/수신부(1391)에 후방 스피커 채널의 오디오 신호가 수신될 경우 증폭부(1393)를 통해 일정 크기로 증폭한 후에 이를 출력부(1395)에 출력한다.

그리고 후방 스피커(139)는 송/수신부(1391)에 무선 헤드폰 오디오 신호가 수신될 경우 증폭부(1393)를 통해 일정 크기로 증폭한 후에 이를 외부 연결 단자(1397)에 연결된 무선 헤드폰 송신단자(152)를 통해 무선 헤드폰(150)에 무선으로 전송한다.

한편, 본 발명은 5.1채널 스피커 중에서 후방 스피커만 무선으로, 나머지 스피커는 유선으로 구성한 홈 씨어터 시스템을 예로 들어 설명하였지만, 후술되는 청구범위에 기재된 본 발명의 기술적 사상과 범주내에서 당업자에 의해 여러 가지 변형이 가능하다.

발명의 효과

이상 설명한 바와 같이, 본 발명은 홈 씨어터 시스템의 다채널 스피커 중에서 후방 좌측 또는 우측에 위치한 무선 스피커에 무선 헤드폰의 연결 유무를 검출하여 해당 스피커에 무선 헤드폰용 오디오 신호를 무선으로 전송함으로써 무선 헤드폰을 장착한 사용자 위치에 가까운 후방 스피커에 무선 송신 단자를 꽂아 사용하기 때문에 사용자의 이용 편리성을 높일 수 있다.

(57) 청구의 범위

청구항 1.

적어도 하나 이상의 무선 스피커를 갖는 홈 씨어터 시스템으로서,

비디오/오디오 재생 장치에서 전달된 오디오 신호를 다채널 스피커의 오디오 신호와 이들 신호를 믹싱한 무선 헤드폰용 오디오 신호를 생성하고, 상기 무선 스피커에서 전송된 무선 헤드폰의 연결 유무에 따라 상기 다채널 스피커의 오디오 신호 중 상기 무선 스피커의 오디오 신호 또는 무선 헤드폰용 오디오 신호를 무선으로 전송하는 오디오 리시버를 포함하며

상기 무선 스피커는 상기 무선 헤드폰의 송신 단자가 연결되지 않을 경우 상기 오디오 리시버로부터 수신된 해당 스피커의 오디오 신호를 출력하고, 상기 무선 헤드폰의 송신 단자가 연결될 경우 수신된 무선 헤드폰용 오디오 신호를 상기 무선 헤드폰 송신 단자를 통해 전달하는 것을 특징으로 하는 홈 씨어터 시스템의 무선 헤드폰 신호 송/수신 장치.

청구항 2.

제 1 항에 있어서,

상기 오디오 리시버는 상기 비디오/오디오 재생 장치에서 전달된 오디오 신호를 다채널 스피커의 오디오 신호와 이들 신호를 믹싱한 무선 헤드폰용 오디오 신호를 생성하는 채널 디코딩부와, 상기 무선 스피커의 오디오 신호 또는 상기 무선 헤드폰용 오디오 신호를 전달하도록 스위칭하는 스위칭부와, 상기 스위칭부를 통해 전달된 오디오 신호를 상기 무선 스피커에 송신하며 상기 무선 스피커로부터 ID를 수신받는 송/수신부와, 상기 송/수신부에서 수신된 ID가 무선 헤드폰 ID인지 판별하여 상기 스위칭부를 제어하는 ID 판별부를 포함하는 것을 특징으로 하는 홈 씨어터 시스템의 무선 헤드폰 신호 송/수신 장치.

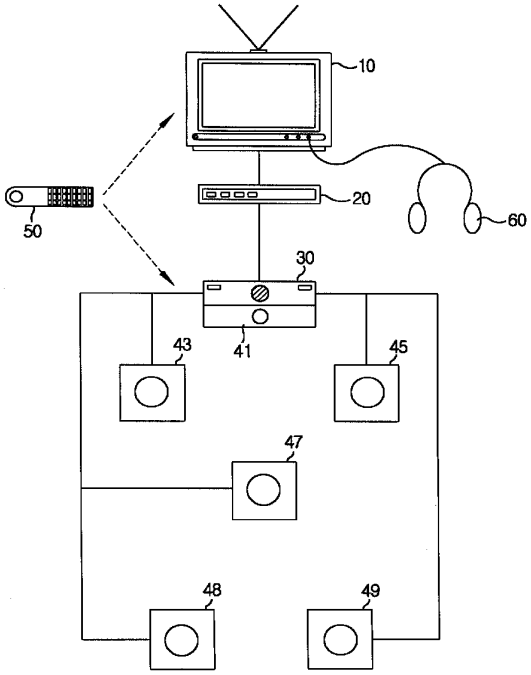
청구항 3.

제 1 항에 있어서,

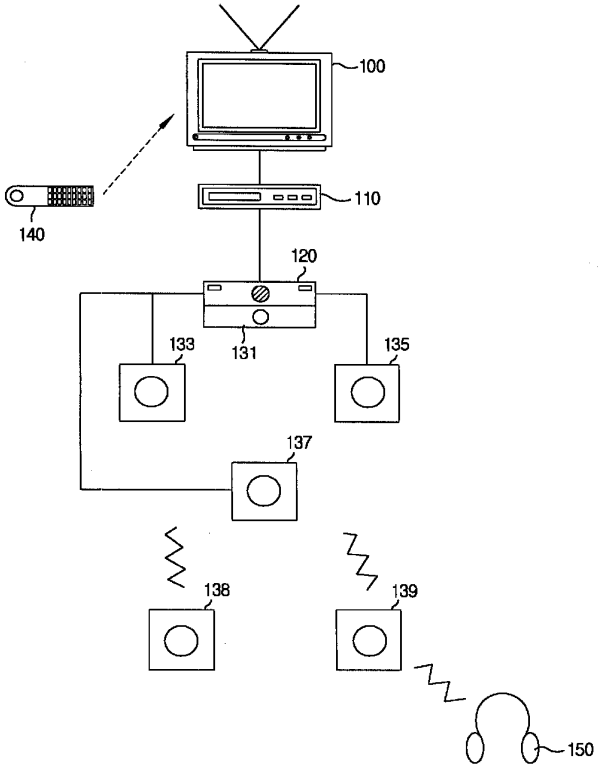
상기 무선 스피커는 상기 오디오 리시버로 ID를 송신하며 상기 오디오 리시버로부터 오디오 신호를 수신받는 송/수신부와, 상기 수신된 오디오 신호를 증폭하는 증폭부와, 상기 증폭된 오디오 신호중 무선 헤드폰용 오디오 신호를 상기 무선 헤드폰 송신 단자에 전달하는 외부 연결 단자와, 상기 외부 연결 단자와 상기 무선 헤드폰 송신 단자가 연결될 경우 해당 무선 스피커의 ID를 상기 송/수신부로 송출하며 상기 외부 연결 단자와 상기 무선 헤드폰 송신 단자가 연결되지 않을 경우 무선 헤드폰 ID를 상기 송/수신부로 송출하는 헤드폰 검출/ID 송출부를 포함하는 것을 특징으로 하는 홈 씨어터 시스템의 무선 헤드폰 신호 송/수신 장치.

도면

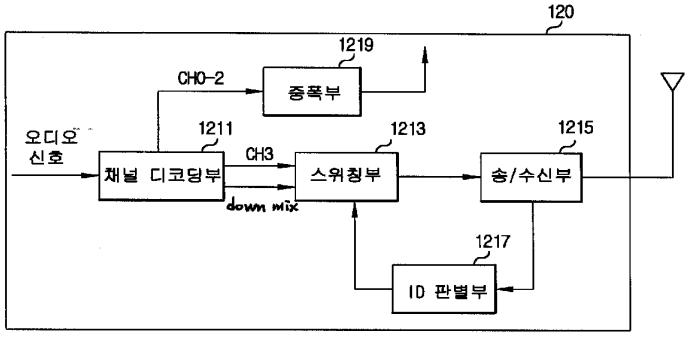
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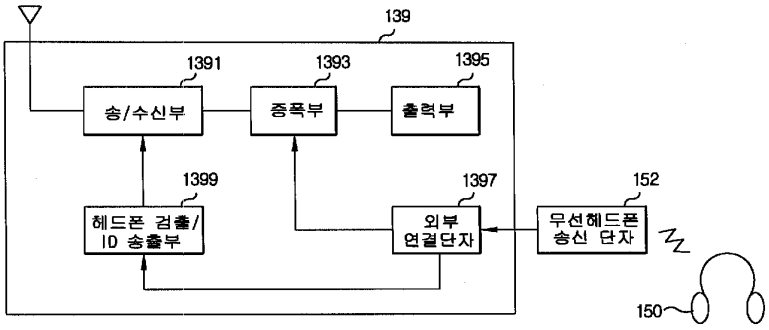
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신호
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송/수신부
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ID 판별부

도면3b


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송/수신부
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증폭부
1395
출력부
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헤드폰 검출/
ID 송출부
1397
외부
연결단자
152
무선헤드폰
송신 단자
150

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Docket No. 11-0401-CON1019A)

In re the Application of:	)	
	)	
Sonos, Inc.	)	
	)	**Group Art Unit**
Serial No.: 16/670,109	)	
	)	
Filed: October 31, 2019	)	
	)	**Examiner: TBA**
Confirmation No. 7387	)	
	)	
For: Playback Device Pairing	)	

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

TRANSMITTAL WITH INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.34, the undersigned hereby confirms that the attached Information Disclosure Statement (IDS) is being filed in accordance with the undersigned's authority to act in a representative capacity on behalf of Applicant, Sonos, Inc., in connection with the preparation and filing of IDSs for the above-referenced matter.

Respectfully submitted,

Dated: November 21, 2019

By: /Brandon J. Kennedy/
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Electronic Acknowledgement Receipt

EFS ID:	37825983
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	12:01:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	11-0401-CON1019A_0_IDS_20191121171404.pdf	1054316 97b07c1f36420d0cd5e16fe7d3d5523c1a95d49e	no	6

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Information:					
		Total Files Size (in bytes):	11569324		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt

EFS ID:	37825656
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:56:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	SONOS_OPENING_BRIEF_9-9-2016-v2.pdf	288635 b965c0d9cf55b0c1dcfeff1e85bcdcb4d145d49c	no	26

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45	Non Patent Literature	FIREBALL_DVDM-100_INSTALLATION_USERS_GUIDE_185PAGES_V2.pdf	14991875 62c990583fe44c169bc315443349f8abc3074da7	no	185
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New International Application Filed with the USPTO as a Receiving Office
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Electronic Acknowledgement Receipt

EFS ID:	37825748
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:57:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	European_No_138086236-1502_Examination_Report_10-24-16.pdf	125370 17ccd8f3f4b2a143762e0a38304d1ce4c5e0c505	no	4

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2	Non Patent Literature	13848921_FOA_10-19-2016.pdf	495386 18e08e76b8b8d651e18586da2df0ecde01c31c14	no	14
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3	Non Patent Literature	13864249_OA_09-30-2016.pdf	372706 83d19dc3709189523038495d622c17262c1b8358	no	12
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6	Non Patent Literature	14505966_OA_10-12-2016.pdf	335728 840a94ea32298a69d970da872e30e0b43c099894	no	10
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7	Non Patent Literature	14563515_Non-Final_OA_10-20-16.pdf	353785 721f3679f0c5c4a673d2501287c417c66fd602b2	no	10
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8	Non Patent Literature	15134767_NOA_10-24-2016.pdf	400770 ddf702aa6bf0a0c67fce985e4a570f97349a2c86	no	7
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9	Non Patent Literature	14290493_NOA_10-19-2016.pdf	618445 4322832bd8d8d1cc642b83fad2ee6c8cbe2ee35c	no	14
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12	Non Patent Literature	European_No_161569405-1910_Extended_Search_Report_7-5-16.pdf	218656 d3b955f7ab82a4a30e0a12702a20f28cb944b913	no	7
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14	Non Patent Literature	Japanese_No_2015-238682_Office_Action_11-1-16.pdf	2849112 0359075401f407750c493e71cf5d8ff6ddbba97f	no	7
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15	Non Patent Literature	Ritchie_UPnP_June_25_2002.pdf	1506090 45817b465159b9969586aa2d3c02f0cc7f9c1b7f	no	22
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18	Non Patent Literature	Ritchie_MediaServer_June_25_2002.pdf	863848 6c4ccfd38987b96e71e80b0725b463a29dbef209	no	12
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19	Non Patent Literature	Postel_1980.pdf	84782 6bc1898418fef442049da279bc682d78e078c308	no	3
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23	Non Patent Literature	Anonymous_Sonos_Digital_Music_System_User_Guide_Ver050801_2005.pdf	8832896 95458ebd467760e0afe084114e64017d77d16891	no	114
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24	Non Patent Literature	Anonymous_Sonos_MultiRoom_Music_System_Ver091001_2009_299pp.pdf	25102410 a740e1b8b56901bdc08ce4720f8c7c6ec1c468d9	no	299
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35	Non Patent Literature	OPENING_BRIEF_8-1-16-.pdf	226573 beec3e4ce8c3e8ff4a4681061db68a40c9f4a795	no	11
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46	Non Patent Literature	EXHIBIT_A_DEFENDANTS_SEC OND_AMENDED_ANSWER_10- 12-2016-.pdf	205207 58a1bf313d6cfa29f58406b75452f22e72c9 18f8	no	43
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48	Non Patent Literature	SONOSVDM- OPPOSITION_TO_DEFENDANTS _MOTION_FOR_LEAVE_10-31-1 6_26PAGES.pdf	255142 4dade7291e973707e35732b998ababd913 eb3081	no	26
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51	Non Patent Literature	EXHIBIT2_AMENDED_INVALIDITY_CHARTS_8588949_PATENT-.pdf	1456593 3a0331c5a27c41f1427f36b2044018437bf822bb	no	224
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52	Non Patent Literature	EXHIBIT3_AMENDED_INVALIDITY_CHARTS_8843224_PATENT-.pdf	1829334 c2f43b47f7fe7663cfabc4dc0d5de190911a0542	no	147
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55	Non Patent Literature	EXHIBIT6_AMENDED_INVALIDITY_CHARTS_9042556_PATENT-.pdf	566752 5dcd07804be07e0a469c2675ddfc773fda7f34e7	no	162
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56	Non Patent Literature	EXHIBIT7_AMENDED_INVALIDITY_CHARTS_9195258_PATENT-.pdf	1186146 0664d301fcf4b22fc849ffeabcf5ddcceef694b8	no	418
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57	Non Patent Literature	EXHIBIT8_AMENDED_INVALIDITY_CHARTS_9202509_PATENT-.pdf	2303729 05584fc5a70ea3ac116f27c8c5fbec3043655ba9	no	331
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59	Non Patent Literature	EXHIBIT10_AMENDED_INVALIDITY_CHARTS_9219959_PATENT-.pdf	1283154 974c2f866cf1dd61135ac344046abe036e6f3e29	no	236
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60	Non Patent Literature	EXHIBIT11_AMENDED_INVALIDITY_CHARTS_D559197_PATENT-.pdf	1259583 77d9f9dee903939b96330e9c965c346a37bedade	no	52
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Information:					
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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Docket No. 11-0401-CON1019A)

In re the Application of:	)	
	)	
Sonos, Inc.	)	
	)	**Group Art Unit**
Serial No.: 16/670,109	)	
	)	
Filed: October 31, 2019	)	
	)	**Examiner: TBA**
Confirmation No. 7387	)	
	)	
For: Playback Device Pairing	)	

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

TRANSMITTAL WITH INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.34, the undersigned hereby confirms that the attached Information Disclosure Statement (IDS) is being filed in accordance with the undersigned's authority to act in a representative capacity on behalf of Applicant, Sonos, Inc., in connection with the preparation and filing of IDSs for the above-referenced matter.

Respectfully submitted,

Dated: November 21, 2019

By: /Brandon J. Kennedy/
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Electronic Acknowledgement Receipt	
EFS ID:	37825957
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	12:00:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	15228812_NOA_11-0101-CON0716B_12-7-18_7pages.pdf	415627 c50d72fbacef8e9a4556c8a99c9e44be650ef7ef	no	7

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2	Non Patent Literature	2017211958_JP_OA_11-0401-JP-DIV3_12-18-18_8pages.pdf	1231974 c39323c489328275912ef0f80b50582fcb8881e7	no	8
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4	Non Patent Literature	15487686_NOA_11-0401-CON0417_1-15-19_8pages.pdf	422926 42ab990a0c97e1a5408282ae92ba13561c60f4f6	no	8
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5	Non Patent Literature	2017211958_JP_OA_Translation_11-0401-JP-DIV3_12-18-18_6pages.pdf	90134 dfe9e8aee3e98d51670ad4b69b17a005b86243cf	no	6
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8	Non Patent Literature	16129758_NOA_11-0401-CON0918B_5-30-19_7pages.pdf	408140 8f51dae535bb5af928775a925aeb87d11a8e5cbe	no	7
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9	Non Patent Literature	2017211958_JP_Final_OA_11-0401-JP-DIV3_6-4-19_8pages.pdf	1296521 b37f926bf6d32ff5dba0447988ad4ef9d922f06c	no	8
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15	Non Patent Literature	Cobranet_Manual_2005_13pages.pdf	1260221 e5b7d54e23a1f7b8a6ee0d394110b1bac6c9408c	no	13
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16	Non Patent Literature	AuviTran_AVB32-ES_Users_Manual_2005_25pages.pdf	2722231 c59e122b83c11a503c908e3a7bc26e5b6bd36463	no	25
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18	Non Patent Literature	2016108041348_CN_OA_11-0401-CN-DIV_6-27-19_.pdf	1884990 4c4ff56a4feecdef92bda213372abde19671041d	no	15
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19	Non Patent Literature	2016108041348_Translation_of_OA_11-0401-CN-DIV_6-27-19_10pages.pdf	163678 6c5dce42401dba928e351a452173fb6ad6fcf805	no	10
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21	Non Patent Literature	16383565_NOA_07-0901-CON0419B_9-5-19_14pages.pdf	633055 a2abeff6f606943bfe3d15d8ae80f396f7a17f88	no	14
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22	Non Patent Literature	16383561_NOA_07-0901-CON0419A_9-9-19_18pages.pdf	795598 7cb017d7eb3d8f8a99c91e94396ceabc3727e0fc	no	18
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23	Non Patent Literature	171988678_EP_OA_11-0401-EP-DIV3_9-16-19_6pages.pdf	215573 6aed82c199df49705eea269910b9f4f9d3afc313	no	6
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24	Non Patent Literature	15405931_NFOA_14-0601-CON0117_13pages.pdf	467483 5ac2ca7faaee61d6a79905ffc92f0fc44b86e3c1	no	13
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25	Non Patent Literature	16422160_NOA_07-0901-CON0519_11-04-19_13pages.pdf	616934 e2f97d774594306166e2dac39fc730adfdb04c6f	no	13
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26	Transmittal Letter	IDS_Transmittal.pdf	83462 4ed530e1a16f0c844536ba90e0eaea9bf11fd487	no	1
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Information:					
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New International Application Filed with the USPTO as a Receiving Office

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Electronic Acknowledgement Receipt	
EFS ID:	37825419
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:54:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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5	Non Patent Literature	EP_SearchReport_13810340_3_03-07-2016.pdf	305975 921d9e5c4cfbfe3cf521aa12e94c2763d841822c	no	9
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10	Non Patent Literature	CANADIAN_NO_2842342_OFFICE_ACTION_4-4-16_V2.pdf	5278543 63f607f2a2c4796a17091456a25caa7a3088fa64	no	5
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59	Non Patent Literature	Faller_2004.pdf	17559506 0ea32c9411b22a201ea0e32690c0f25ea5628512	no	12
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National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
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Electronic Acknowledgement Receipt	
EFS ID:	37825294
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:53:28
Application Type:	Utility under 35 USC 111(a)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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		Total Files Size (in bytes):	28324454		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:

GEORGE, Christopher N.
Hanley, Flight & Zimmerman, LLC
150 S. Wacker Drive, Suite 2100
Chicago, Illinois 60606
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 08 January 2015 (08.01.2015)	
Applicant's or agent's file reference 13-0410-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/046372	18 June 2013 (18.06.2013)	26 June 2012 (26.06.2012)

Applicant
SONOS, INC.

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Simin Baharlou

e-mail: pt09.pct@wipo.int

Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 13-0410-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/046372	International filing date *(day/month/year)* 18 June 2013 (18.06.2013)	Priority date *(day/month/year)* 26 June 2012 (26.06.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant SONOS, INC.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 31 December 2014 (31.12.2014)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Simin Baharlou e-mail: pt09.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
GEORGE CHRISTOPHER N.

HANLEY, FLIGHT & ZIMMERMAN, LLC 150 S.
WACKER DRIVE SUITE 2100 CHICAGO IL 60606 USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)*	**26 August 2013 (26.08.2013)**
Applicant's or agent's file reference 13-0410-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/046372	**18 June 2013 (18.06.2013)**	26 June 2012 (26.06.2012)

International Patent Classification (IPC) or both national classification and IPC

G06F 15/16(2006.01)i

Applicant

SONOS, INC.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. +82-42-472-7140	23 August 2013 (23.08.2013)	PARK, Sang Hyun Telephone No. +82-42-481-8263

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/046372

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

   a. a sequence listing filed or furnished
      ☐ on paper
      ☐ in electronic form

   b. time of filing or furnishing
      ☐ contained in the international application as filed.
      ☐ filed together with the international application in electronic form.
      ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/046372

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	2-3,12-13	YES
	Claims	1,4-11,14-20	NO
Inventive step (IS)	Claims	2-3,12-13	YES
	Claims	1,4-11,14-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations :

(1) Reference is made to the following documents:

D1: US 2007-0048713 A1 (DANIEL PLASTINA et al.) 01 March 2007
D2: US 2012-0030366 A1 (COLLART TODD et al.) 02 February 2012
D3: US 2006-0143236 A1 (MICHAEL WU) 29 June 2006
D4: US 2008-0091771 A1 (JEFFREY L. ALLEN et al.) 17 April 2008

(2) Novelty & Inventive Steps

Concerning claims 1-10:
Claims 1,4-10
D1 discloses a community media playlist sharing system, wherein system users can upload media playlists which are automatically converted to a standardized format, media playlists can be shared with other users of the community media playlist sharing system, users can link to other playlists and obtain media from playlists automatically from third party points of purchase, users can provide recommendations, ratings and rankings relative to other playlists by system users and receive recommendations from other users and an editorial staff, participate in social networking functions including forums, discussions, weblogs, playlist topic groups and inter-user communications based on affinity for similar playlists, create playlists manually, automatically, or in real time, and wherein system users can obtain points for participation and popularity in the system and obtain profit by meta-affiliate sharing of profit for purchases of music made through playlists submitted by that user as well as through playlist toolbars distributed to third party websites.[paragraph 73 - paragraph 156, and figures 1-23] As all of the features of claims 1,4-10 are disclosed in D1, these claims are anticipated in D1. Therefore, claims 1,4-10 lack novelty under PCT Article 33(2) and are not considered as involving an inventive step under PCT Article 33(3).
Claims 2-3:
The subject matter of claims 2-3 is different from that of D1 in a guest mode. And it is

Continued on Supplemental Box

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of : Box No. V

not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claims 2-3 are novel and involve an inventive step under PCT Article 33(2) and (3).

Concerning claims 11-20:
Claims 11,14-20:
D1 discloses a community media playlist sharing system, wherein system users can upload media playlists which are automatically converted to a standardized format, media playlists can be shared with other users of the community media playlist sharing system, users can link to other playlists and obtain media from playlists automatically from third party points of purchase, users can provide recommendations, ratings and rankings relative to other playlists by system users and receive recommendations from other users and an editorial staff, participate in social networking functions including forums, discussions, weblogs, playlist topic groups and inter-user communications based on affinity for similar playlists, create playlists manually, automatically, or in real time, and wherein system users can obtain points for participation and popularity in the system and obtain profit by meta-affiliate sharing of profit for purchases of music made through playlists submitted by that user as well as through playlist toolbars distributed to third party websites.[paragraph 73 - paragraph 156, and figures 1-23] As all of the features of claims 11,14-20 are disclosed in D1, these claims are anticipated in D1. Therefore, claims 11,14-20 lack novelty under PCT Article 33(2) and are not considered as involving an inventive step under PCT Article 33(3).
Claims 12-13:
The subject matter of claims 12-13 is different from that of D1 in a guest mode. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claims 12-13 are novel and involve an inventive step under PCT Article 33(2) and (3).

(3) Industrial Applicability

The subject matter of claims 1-20 is believed to be industrially applicable under PCT Article 33(4) because the claimed invention can be used in the computer industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:

JASPER, Joseph, T.
Hanley, Flight & Zimmerman, LLC
150 S. Wacker Drive, Suite 2100
Chicago, Illinois 60606
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
08 January 2015 (08.01.2015)	
Applicant's or agent's file reference 12-0402-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/046386	18 June 2013 (18.06.2013)	26 June 2012 (26.06.2012)

Applicant
SONOS, INC.

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Philippe Bécamel
Facsimile No. +41 22 338 82 70	e-mail: pt03.pct@wipo.int

Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 12-0402-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/046386	International filing date *(day/month/year)* 18 June 2013 (18.06.2013)	Priority date *(day/month/year)* 26 June 2012 (26.06.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant SONOS, INC.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 31 December 2014 (31.12.2014)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Philippe Bécamel e-mail: pt03.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
JASPER JOSEPH T.

HANLEY, FLIGHT & ZIMMERMAN, LLC 150 S.
WACKER DRIVE, SUITE 2100 CHICAGO IL 60606 USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)*	**30 September 2013 (30.09.2013)**
Applicant's or agent's file reference: 12-0402-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/046386	**18 June 2013 (18.06.2013)**	26 June 2012 (26.06.2012)

International Patent Classification (IPC) or both national classification and IPC

G06Q 50/10(2012.01)i

Applicant

SONOS, INC.

1. This opinion contains indications relating to the following items:

- [x] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [x] Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. +82-42-472-7140	27 September 2013 (27.09.2013)	KIM Sung Gon Telephone No. +82-42-481-8746

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/046386

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

   a. a sequence listing filed or furnished
      ☐ on paper
      ☐ in electronic form

   b. time of filing or furnishing
      ☐ contained in the international application as filed.
      ☐ filed together with the international application in electronic form.
      ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/046386

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-21	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-21	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 7483958 B1 (TAREK Z. ELABBADY et al.) 27 January 2009
D2: US 2010-0228740 A1 (ALAN CANNISTRARO et al.) 09 September 2010

1. Novelty and Inventive Step

1.1 Claims 1-10

1.1.1 Independent claim 1

D1, which is considered to be the closest prior art to the subject matter of claim 1, discloses a method comprising: presenting media content information (e.g., music file, a play list) to the user, determining whether an original media playing license associated with the particular media contents file is available, generating a temporary media playing license from the original media playing license, the temporary media playing license specifying restrictions relating to playback of the particular media content file via the home network device; and sending the temporary media playing license to the home network device (See abstract, column 11, lines 1-20, claim 1, figure 4 in D1). Claim 1 differs from D1 in facilitating addition of content to the playlist by at least one participating user; and playback of content from the playlist in the restricted playback mode. However, D2 discloses a method comprising: receiving from at least one of the plurality of user devices a vote on a media item; and organizing the playlist based on the received votes (See abstract, paragraphs [0047]-[0057], claim 1, figure 4 in D2). Accordingly, claim 1 would have been obvious over D1 and D2. Therefore, claim 1 lacks an inventive step under PCT Article 33(3).

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of : Box No. V

1.1.2 Dependent claims 2-10

The additional feature of claim 2 is identical to the feature of D1 in that media items in the playlist are automatically chosen and added to the playlist by a program on the playlist host device (See claim 6 in D1). Accordingly, claim 2 would have been obvious over D1 and D2. Therefore, claim 2 lacks an inventive step under PCT Article 33(3).

Claim 3 further specifies authenticating the at least one participating user to enable the at least one participating user to add content to the playlist in the restricted playback mode. However, the additional feature of claim 3 is virtually suggested by the feature of D2 considering that the host receives an opt-in command from an authorized user and the opt-in command instructs the host to allow remote access to the playlist (See abstract, paragraphs [0047]-[0057], figure 4 in D2). Accordingly, claim 3 would have been obvious over D1 and D2. Therefore, claim 3 lacks an inventive step under PCT Article 33(3).

The additional feature of claim 4 is identical to the feature of D2 in receiving from at least one of the plurality of user devices a vote on a media item; and organizing the playlist based on the received votes (See abstract, paragraphs [0047]-[0057], claim 1, figure 4 in D2). Accordingly, claim 4 would have been obvious over D1 and D2. Therefore, claim 4 lacks an inventive step under PCT Article 33(3).

Claims 5, 6 further specify that facilitating addition of content comprises accepting user selection of the content from a list of available content via a graphical user interface, and the list of available content includes a library of shared music available via a network. However, the additional features of claims 5, 6 are virtually suggested by the feature of D1 considering presenting media content information (e.g., metadata from the media library) to the user through a display screen, and selecting one or more music files, a play list, or other grouping of music files by the user (See abstract, column 11, lines 1-20, claim 1, figure 4 in D1). And D2 discloses a step of sending a playlist on a host device to a plurality of portable devices for display on a graphical user interface (See paragraph [0009] in D2). Accordingly, claims 5, 6 would have been obvious over D1 and D2. Therefore, claims 5, 6 lack an inventive step under PCT Article 33(3).

Claim 7 further comprises that the restricted playback mode is initiated and ended by a host user according to user authorization. However, the additional feature of claim 7 is merely a

Continued on The Next Page

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of : Previous Page

matter of design option when the general knowledge in relevant field of the art is used. Accordingly, claim 7 would have been obvious over D1 and D2. Therefore, claim 7 lacks an inventive step under PCT Article 33(3).

Claim 8 further specifies configuring the restricted playback mode for a fixed time interval. However, the additional feature of claim 8 is virtually suggested by the feature of D2 considering ordering changes can be postponed until the interval since the last touch event has exceeded 2 seconds (See paragraph [0089] in D2). Accordingly, claim 8 would have been obvious over D1 and D2. Therefore, claim 8 lacks an inventive step under PCT Article 33(3).

Claim 9 further specifies that a restricted playback mode includes a specified configuration of zones. However, the additional feature of claim 9 is virtually suggested by the feature of D1 considering that the media content license may be associated with a specific entity or with multiple entities (e.g., groups) (See column 7, lines 61-66 in D1). Accordingly, claim 9 would have been obvious over D1 and D2. Therefore, claim 9 lacks an inventive step under PCT Article 33(3).

Claim 10 further comprises that the subset of playback functions includes limited user interaction with at least one of zone configuration and content playback parameters. However, the additional feature of claim 10 is merely a matter of design option when the general knowledge in relevant field of the art is used. Accordingly, claim 10 would have been obvious over D1 and D2. Therefore, claim 10 lacks an inventive step under PCT Article 33(3).

1.2 Claims 11-20

1.2.1 Independent claim 11

Claim 11 relates to a tangible computer readable storage medium including instructions which, when executed by a processor, are to implement at least a method. But it shares similar technical features with claim 1. Accordingly, the same reasoning applies to claim 11. Therefore, claim 11 lacks an inventive step under PCT Article 33(3).

1.2.2 Dependent claims 12-20

Claims 12-20 share the same technical features with claims 2-10, respectively. Accordingly, the

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of : Previous Page

same reasoning applies to claims 12-20. Therefore, claims 12-20 lack an inventive step under PCT Article 33(3).

1.3 Independent claim 21

Claim 21 relates to a media playback system, but it shares similar technical features with claim 1. Accordingly, the same reasoning applies to claim 21. Therefore, claim 21 lacks an inventive step under PCT Article 33(3).

2. Industrial Applicability

Claims 1-21 are industrially applicable under PCT Article 33(4).

Electronic Acknowledgement Receipt	
EFS ID:	37825144
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:52:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	PCTUS2013046372_IPRP_01-08-2015.pdf	240252 933fa91104ab0e5235038bfe50f0eb26bf3364a9	no	6

Warnings:

Information:					
2	Non Patent Literature	14184935_Final_OA_2-11-15.pdf	597904 06df6bf664b3ebc72f1e54a3a57394b1c15d22d3	no	17
Warnings:					
Information:					
3	Non Patent Literature	14184522_Final_OA_2-12-15.pdf	706206 868a4d9bc110b9d1c8daaf1a2c50e73e2c1d165e	no	20
Warnings:					
Information:					
4	Non Patent Literature	14184526_Final_OA_2-11-15.pdf	444504 4d2ca224f13835ab971c56f83091a5b9dc090bca	no	13
Warnings:					
Information:					
5	Non Patent Literature	13630565_Non-Final_OA_9-23-14.pdf	217644 09dedf1f4cab8383af6ef11224291c1a7b2061e9	no	7
Warnings:					
Information:					
6	Non Patent Literature	13630565_NOA_1-22-15.pdf	399561 254f7a38d0a868bfd93fb67499cd153734f62b36	no	7
Warnings:					
Information:					
7	Non Patent Literature	14256434_NOA_12-5-14.pdf	415682 f6f6757addf8746671ed4a84f4009e7b993ec62c	no	7
Warnings:					
Information:					
8	Non Patent Literature	14290493_NonFinal_OA_1-30-15.pdf	979980 474204afb3d454e359995b393fdb69f335e07ba3	no	29
Warnings:					
Information:					

9	Non Patent Literature	13013740_Non-Final_2-13-15.pdf	461558 5e697a3a51480d4bd61d0ab47cc7fb21cc2cdedc	no	14
Warnings:					
Information:					
10	Non Patent Literature	PCTUS2013046386_Intl_Preliminary_Report_1-8-15.pdf	308278 d483d48dbb01747b5d9fb4710b31c32aadf7ba53	no	8
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11	Non Patent Literature	JAPANESE_NO_2014-521648_REJECTION_NOTICE_2015-02-03-v2.pdf	316632 6a0630bc1eb25d14c002919312a755dde9c91a17	no	7
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47	Non Patent Literature	Dynaudio_Acoustics_Air_Series_2002.pdf	518074 6a832377b096080b6c2678be142d2961d3d2f1bc	no	4
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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
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EFS ID:	37824310
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:49:58
Application Type:	Utility under 35 USC 111(a)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	1	Non-Final Office Action mailed on 17 December 2015, issued in connection with U.S. Patent Application No. 13/458558, filed on 27 April 2012, 10 pages.	
	2	Non-Final Office Action mailed on 17 July 2019, issued in connection with U.S. Patent Application No. 15/130919, filed on 15 April 2016, 15 pages.	
	3	Non-Final Office Action mailed on 17 November 2014, issued in connection with U.S. Patent Application No. 13/864247, filed on 17 April 2013, 11 pages.	
	4	Non-Final Office Action mailed on 17 November 2016, issued in connection with U.S. Patent Application No. 14/620937, filed on 12 February 2015, 14 pages.	
	5	Non-Final Office Action mailed on 18 February 2009, issued in connection with U.S. Patent Application No. 10/861653, filed on 05 June 2004, 18 pages.	
	6	Non-Final Office Action mailed on 18 November 2014, issued in connection with U.S. Patent Application No. 13/435739, filed on 30 March 2012, 10 pages.	
	7	Non-Final Office Action mailed on 19 January 2018, issued in connection with U.S. Patent Application No. 14/629937, filed on 24 February 2015, 14 pages.	
	8	Non-Final Office Action mailed on 19 June 2015, issued in connection with U.S. Patent Application No. 13/533105 filed on 26 June 2012, 38 pages.	
	9	Non-Final Office Action mailed on 19 November 2014, issued in connection with U.S. Patent Application No. 13/848921, filed on 22 March 2013, 9 pages.	
	10	Non-Final Office Action mailed on 20 August 2009, issued in connection with U.S. Patent Application No. 11/906702, filed on 02 October 2007, 27 pages.	
	11	Non-Final Office Action mailed on 20 October 2016, issued in connection with U.S. Patent Application No. 14/563515, filed on 08 December 2014, 10 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	12	Non-Final Office Action mailed on 21 September 2016, issued in connection with U.S. Patent Application No. 15/080591, filed on 25 March 2016, 9 pages.	
	13	Non-Final Office Action mailed on 21 September 2016, issued in connection with U.S. Patent Application No. 15/080716, filed on 25 March 2016, 8 pages.	
	14	Non-Final Office Action mailed on 21 September 2016, issued in connection with U.S. Patent Application No. 15/088283, filed on 01 April 2016, 9 pages.	
	15	Non-Final Office Action mailed on 21 September 2016, issued in connection with U.S. Patent Application No. 15/088532, filed on 01 April 2016, 9 pages.	
	16	Non-Final Office Action mailed on 22 August 2018, issued in connection with U.S. Patent Application No. 15/487686, filed on 14 April 2017, 13 pages.	
	17	Non-Final Office Action mailed on 22 December 2014, issued in connection with U.S. Patent Application No. 13/458558, filed on 27 April 2012, 11 pages.	
	18	Non-Final Office Action mailed on 22 September 2016, issued in connection with U.S. Patent Application No. 15/088906, filed on 01 April 2016, 9 pages.	
	19	Non-Final Office Action mailed on 22 September 2016, issued in connection with U.S. Patent Application No. 15/155149, filed on 16 May 2016, 7 pages.	
	20	Non-Final Office Action mailed on 23 June 2015, issued in connection with U.S. Patent Application No. 13/705176, filed on 05 December 2012, 30 pages.	
	21	Non-Final Office Action mailed on 23 March 2015, issued in connection with U.S. Patent Application No. 14/299847, filed on 09 June 2014, 14 pages.	
	22	Non-Final Office Action mailed on 23 October 2014, issued in connection with U.S. Patent Application No. 13/848904, filed on 22 March 2013, 11 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	23	Non-Final Office Action mailed on 23 October 2014, issued in connection with U.S. Patent Application No. 13/864251, filed on 17 April 2013, 11 pages.	
	24	Non-Final Office Action mailed on 23 October 2014, issued in connection with U.S. Patent Application No. 13/888203, filed on 06 May 2013, 9 pages.	
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	26	Non-Final Office Action mailed on 24 February 2017, issued in connection with U.S. Patent Application No. 14/619813, filed on 11 February 2015, 9 pages.	
	27	Non-Final Office Action mailed on 24 May 2016, issued in connection with U.S. Patent Application No. 15/134767, filed on 21 April 2016, 12 pages.	
	28	Non-final Office Action mailed on 24 October 2014, issued in connection with U.S. Patent Application No. 13/435776, filed 30 March 2012, 14 pages.	
	29	Non-Final Office Action mailed on 25 April 2018, issued in connection with U.S. Patent Application No. 15/130919 filed on 15 April 2016, 13 pages.	
	30	Non-Final Office Action mailed on 26 February 2015, issued in connection with U.S. Patent Application No. 14/186850, filed on 21 February 2014, 25 pages.	
	31	Non-Final Office Action mailed on 26 March 2015, issued in connection with U.S. Patent Application No. 14/184528, filed on 19 February 2014, 18 pages.	
	32	Non-Final Office Action mailed on 27 January 2015, issued in connection with U.S. Patent Application No. 14/465457, filed on 21 August 2014, 11 pages.	
	33	Non-Final Office Action mailed on 27 June 2008, issued in connection with U.S. Patent Application No. 10/861653, filed on 05 June 2004, 19 pages.	

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	34	Non-Final Office Action mailed on 27 March 2015, issued in connection with U.S. Patent Application No. 13/705178, filed on 05 December 2012, 14 pages.	
	35	Non-Final Office Action mailed on 27 September 2013, issued in connection with U.S. Patent Application No. 13/013740, filed on 25 January 2011, 12 pages.	
	36	Non-Final Office Action mailed on 27 September 2016, issued in connection with U.S. Patent Application No. 15/228685, filed on 04 August 2016, 8 pages.	
	37	Non-Final Office Action mailed on 27 September 2019, issued in connection with U.S. Patent Application No. 15/405931, filed on 13 January 2017, 13 pages.	
	38	Non-Final Office Action mailed on 28 August 2019, issued in connection with U.S. Patent Application No. 16/422160, filed on 24 May 2019, 14 pages.	
	39	Non-Final Office Action mailed on 28 December 2015, issued in connection with U.S. Patent Application No. 14/290493, filed on 29 May 2014, 29 pages.	
	40	Non-Final Office Action mailed on 28 December 2016, issued in connection with U.S. Patent Application No. 15/343000, filed on 03 November 2016, 11 pages.	
	41	Non-Final Office Action mailed on 29 January 2016, issued in connection with U.S. Patent Application No. 14/937523, filed on 10 November 2015, 10 pages.	
	42	Non-Final Office Action mailed on 29 June 2016, issued in connection with U.S. Patent Application No. 14/629937, filed on 24 February 2015, 12 pages.	
	43	Non-Final Office Action mailed on 30 April 2012, issued in connection with U.S. Patent Application No. 13/204511, filed on 05 August 2011, 16 pages.	
	44	Non-Final Office Action mailed on 30 January 2015, issued in connection with U.S. Patent Application No. 14/290493, filed on 29 May 2014, 29 pages.	

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	45	Non-Final Office Action mailed on 30 January 2015, issued in connection with U.S. Patent Application No. 14/504812, filed on 02 October 2014, 13 pages.	
	46	Non-Final Office Action mailed on 30 November 2016, issued in connection with U.S. Patent Application No. 15/243186, filed on 22 August 2016, 12 pages.	
	47	Non-Final Office Action mailed on 30 October 2018, issued in connection with U.S. Patent Application No. 16/128443, filed on 11 September 2018, 21 pages.	
	48	Non-Final Office Action mailed on 30 September 2016, issued in connection with U.S. Patent Application No. 13/864249, filed on 17 April 2013, 12 pages.	
	49	Non-Final Office Action mailed on 31 October 2016, issued in connection with U.S. Patent Application No. 14/806070, filed on 22 July 2015, 11 pages.	
	50	Non-Final Office Action mailed on 5 July 2019, issued in connection with U.S. Patent Application No. 16/383561, filed on 12 April 2019, 12 pages.	

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
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	1	Non-Final Office Action mailed on 5 July 2019, issued in connection with U.S. Patent Application No. 16/383565, filed on 12 April 2019, 11 pages.	
	2	North American MPEG-2 Information, "The MPEG-2 Transport Stream," Retrieved from the Internet: URL: http://www.coolstf.com/mpeg/#ts, 2006, pp. 1-5.	
	3	Notice of Allowability mailed on 18 April 2013, issued in connection with U.S. Patent Application No. 11/853790, filed on 11 September 2007, 4 pages.	
	4	Notice of Allowance mailed 31 January 2013, issued in connection with U.S. Patent Application No. 13/298090, filed on 16 November 2011, 19 pages.	
	5	Notice of Allowance mailed on 01 December 2016, issued in connection with U.S. Patent Application No. 15/088283, filed on 01 April 2016, 9 pages.	
	6	Notice of Allowance mailed on 01 June 2017, issued in connection with U.S. Patent Application No. 14/808397, filed on 24 July 2015, 5 pages.	
	7	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/088532, filed on 01 April 2016, 9 pages.	
	8	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/088678, filed on 01 April 2016, 9 pages.	
	9	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/089758, filed on 04 April 2016, 9 pages.	
	10	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/155149, filed on 16 May 2016, 9 pages.	
	11	Notice of Allowance mailed on 02 July 2015, issued in connection with U.S. Patent Application No. 13/848904, filed on 22 March 2013, 17 pages.	

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	12	Notice of Allowance mailed on 02 July 2015, issued in connection with U.S. Patent Application No. 13/888203, filed on 06 May 2013, 19 pages.	
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	38	Notice of Allowance mailed on 11 January 2016, issued in connection with U.S. Patent Application No. 14/564544, filed on 09 December 2014, 5 pages.	
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	48	Notice of Allowance mailed on 15 January 2019, issued in connection with U.S. Patent Application No. 15/487686, filed on 14 April 2017, 8 pages.	
	49	Notice of Allowance mailed on 15 July 2015, issued in connection with U.S. Patent Application No. 13/705174, filed on 05 December 2012, 18 pages.	
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Name/Print	Brandon J. Kennedy	Registration Number	67894

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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	1	Notice of Allowance mailed on 16 June 2009, issued in connection with U.S. Patent Application No. 10/861653, filed on 05 June 2004, 11 pages.	
	2	Notice of Allowance mailed on 16 May 2017, issued in connection with U.S. Patent Application No. 15/228685, filed on 04 August 2016, 10 pages.	
	3	Notice of Allowance mailed on 17 July 2015, issued in connection with U.S. Patent Application No. 13/864251, filed on 17 April 2013, 20 pages.	
	4	Notice of Allowance mailed on 19 August 2016, issued in connection with U.S. Patent Application No. 14/619813, filed on 11 February 2015, 9 pages.	
	5	Notice of Allowance mailed on 19 May 2015, issued in connection with U.S. Patent Application No. 13/907666, filed on 31 May 2013, 7 pages.	
	6	Notice of Allowance mailed on 19 October 2016, issued in connection with U.S. Patent Application No. 14/290493, filed on 29 May 2014, 14 pages.	
	7	Notice of Allowance mailed on 20 January 2016, issued in connection with U.S. Patent Application No. 14/465457, filed on 21 August 2014, 10 pages.	
	8	Notice of Allowance mailed on 21 October 2015, issued in connection with U.S. Patent Application No. 14/174244, filed on 06 February, 2014, 5 pages.	
	9	Notice of Allowance mailed on 21 October 2015, issued in connection with U.S. Patent Application No. 14/174253, filed on 06 February 2014, 6 pages.	
	10	Notice of Allowance mailed on 21 September 2015, issued in connection with U.S. Patent Application No. 13/297000, filed on 15 November 2011, 11 pages.	
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	12	Notice of Allowance mailed on 22 September 2015, issued in connection with U.S. Patent Application No. 13/888203, filed on 06 May 2013, 7 pages.	
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	34	Notice of Allowance mailed on 7 December 2018, issued in connection with U.S. Patent Application No. 15/228812, filed on 4 August 2016, 7 pages.	
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Name/Print	Brandon J. Kennedy	Registration Number	67894

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	1	JAPANESE PATENT OFFICE, Office Action Summary mailed on 19 November 2013, issued in connection with Japanese Patent Application No. 2012-178711, 5 pages.	
	2	JAPANESE PATENT OFFICE, Translation of Final Office Action mailed on 4 June 2019, issued in connection with Japanese Patent Application No. 2017-211958, 5 pages.	
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	13	LinkSys by Cisco, Wireless Home Audio Player, Wireless-N Music Extender DMP100 Quick Installation Guide, Copyright 2009, 32 pages.	
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Attorney Docket Number	11-0401-CON1019A

	1	Non-Final Office Action mailed 21 June 2011, issued in connection with U.S. Patent Application No. 10/816217, filed 01 April 2004, 13 pages.	
	2	Non-Final Office Action mailed 22 January 2009, issued in connection with U.S. Patent Application No. 10/816217, filed 01 April 2004, 18 pages.	
	3	Non-Final Office Action mailed 23 July 2014, issued in connection with U.S. Patent Application No. 14/256434, filed 18 April 2014, 12 pages.	
	4	Non-Final Office Action mailed 25 July 2014, issued in connection with U.S. Patent Application No. 14/184526, filed 19 February 2014, 9 pages.	
	5	Non-Final Office Action mailed 25 July 2014, issued in connection with U.S. Patent Application No. 14/184935, filed 20 February 2014, 11 pages.	
	6	Non-Final Office Action mailed 25 June 2010, issued in connection with U.S. Patent Application No. 10/816217, filed 01 April 2004, 17 pages.	
	7	Non-Final Office Action mailed 25 November 2013, issued in connection with U.S. Patent Application No. 13/533105, filed 26 June 2012, 19 pages.	
	8	Non-Final Office Action mailed 27 May 2014, issued in connection with U.S. Patent Application No. 14/186850, filed 21 February 2014, 13 pages.	
	9	Non-Final Office Action mailed 29 February 2012, issued in connection with U.S. Patent Application No. 13/297000, filed on 15 November 2011, 10 pages.	
	10	Non-Final Office Action mailed 29 November 2010, issued in connection with U.S. Patent Application No. 11/801468, filed on 09 May 2007, 17 pages.	
	11	Non-Final Office Action mailed 30 July 2013 issued in connection with U.S. Patent Application No. 13/724048, filed on 21 December 2012, 7 pages.	

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	12	Non-Final Office Action mailed 31 July 2014, issued in connection with U.S. Patent Application No.13/533105, filed on 26 June 2012, 31 pages.	
	13	Non-Final Office Action mailed on 01 December 2014, issued in connection with U.S. Patent Application No. 14/516867, filed on 17 October 2014, 11 pages.	
	14	Non-Final Office Action mailed on 01 June 2016, issued in connection with U.S. Patent Application No. 14/184522, filed on 19 February 2014, 21 pages.	
	15	Non-Final Office Action mailed on 03 January 2017, issued in connection with U.S. Patent Application No. 14/808397, filed on 24 July 2015, 11 pages.	
	16	Non-Final Office Action mailed on 03 June 2015, issued in connection with U.S. Patent Application No. 14/564544, filed on 09 December 2014, 7 pages.	
	17	Non-Final Office Action mailed on 03 November 2016, issued in connection with U.S. Patent Application No. 14/184528, filed on 19 February 2014, 17 pages.	
	18	Non-Final Office Action mailed on 04 January 2017, issued in connection with U.S. Patent Application No. 14/825961, filed on 13 August 2015, 11 pages.	
	19	Non-Final Office Action mailed on 04 June 2015, issued in connection with U.S. Patent Application No. 13/871795, filed on 26 April 2013, 16 pages.	
	20	Non-Final Office Action mailed on 04 March 2015, issued in connection with U.S. Patent Application No. 13/435776, filed on 30 March 2012, 16 pages.	
	21	Non-Final Office Action mailed on 04 October 2016, issued in connection with U.S. Patent Application No. 15/089758, filed on 04 April 2016, 9 pages.	
	22	Non-Final Office Action mailed on 05 October 2016, issued in connection with U.S. Patent Application No. 13/864250, filed on 17 April 2013, 10 pages.	

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	23	Non-Final Office Action mailed on 05 October 2016, issued in connection with U.S. Patent Application No. 13/864252, filed on 17 April 2013, 11 pages.	
	24	Non-Final Office Action mailed on 06 October 2016, issued in connection with U.S. Patent Application No. 15/088678, filed on 01 April 2016, 9 pages.	
	25	Non-Final Office Action mailed on 07 July 2015, issued in connection with U.S. Patent Application No. 14/174244, filed on 06 February 2014, 9 pages.	
	26	Non-Final Office Action mailed on 07 October 2016, issued in connection with U.S. Patent Application No. 15/156392, filed on 17 May 2016, 8 pages.	
	27	Non-Final Office Action mailed on 08 March 2011, issued in connection with U.S. Patent Application No. 11/853790, filed on 11 September 2007, 10 pages.	
	28	Non-Final Office Action mailed on 08 March 2016, issued in connection with U.S. Patent Application No. 13/848921, filed on 22 March 2013, 13 pages.	
	29	Non-Final Office Action mailed on 09 August 2016, issued in connection with U.S. Patent Application No. 13/871795, filed on 26 April 2013, 31 pages.	
	30	Non-Final Office Action mailed on 09 May 2014, issued in connection with U.S. Patent Application No. 13/892230, filed on 10 May 2013, 10 pages.	
	31	Non-Final Office Action mailed on 1 November 2018, issued in connection with U.S. Patent Application No. 16/129758, filed on 12 September 2018, 23 pages.	
	32	Non-Final Office Action mailed on 10 February 2016, issued in connection with U.S. Patent Application No. 14/937571, filed on 10 November 2015, 9 pages.	
	33	Non-Final Office Action mailed on 10 March 2011, issued in connection with U.S. Patent Application No. 12/035112, filed on 21 February 2008, 12 pages.	

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	34	Non-Final Office Action mailed on 10 May 2016, issued in connection with U.S. Patent Application No. 14/504812, filed 02 October 2014, 22 pages.	
	35	Non-Final Office Action mailed on 10 November 2016, issued in connection with U.S. Patent Application No. 15/243355, filed on 22 August 2016, 11 pages.	
	36	Non-Final Office Action mailed on 11 June 2018, issued in connection with U.S. Patent Application No. 15/405931, filed on 13 January 2017, 14 pages.	
	37	Non-Final Office Action mailed on 12 December 2016, issued in connection with U.S. Patent Application No. 15/343019, filed on 03 November 2016, 8 pages.	
	38	Non-Final Office Action mailed on 12 June 2015, issued in connection with U.S. Patent Application No. 13/848932, filed on 22 March 2013, 16 pages.	
	39	Non-Final Office Action mailed on 12 March 2015, issued in connection with U.S. Patent Application No. 13/705174, filed on 05 December 2012, 13 pages.	
	40	Non-Final Office Action mailed on 12 October 2016, issued in connection with U.S. Patent Application No. 14/505966, filed on 03 October 2014, 10 pages.	
	41	Non-Final Office Action mailed on 13 February 2014, issued in connection with U.S. Patent Application No. 13/896037, filed on 16 May 2013, 10 pages.	
	42	Non-Final Office Action mailed on 13 February 2015, issued in connection with U.S. Patent Application No. 13/013740, filed on 25 January 2011, 14 pages.	
	43	Non-Final Office Action mailed on 13 January 2016, issued in connection with U.S. Patent Application No. 14/184528, filed on 19 February 2014, 14 pages.	
	44	Non-Final Office Action mailed on 13 June 2016, issued in connection with U.S. Patent Application No. 14/620937, filed on 12 February 2015, 12 pages.	

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	45	Non-Final Office Action mailed on 13 June 2016, issued in connection with U.S. Patent Application No. 15/134761, filed on 21 April 2016, 10 pages.	
	46	Non-Final Office Action mailed on 13 March 2015, issued in connection with U.S. Patent Application No. 13/705177, filed 05 December 2012, 15 pages.	
	47	Non-Final Office Action mailed on 14 May 2018, issued in connection with U.S. Patent Application No. 15/228812, filed on 4 August 2016, 15 pages.	
	48	Non-Final Office Action mailed on 15 December 2016, issued in connection with U.S. Patent Application No. 13/458558, filed on 27 April 2012, 12 pages.	
	49	Non-Final Office Action mailed on 15 July 2015, issued in connection with U.S. Patent Application No. 14/174253, filed on 06 February 2014, 9 pages.	
	50	Non-Final Office Action mailed on 16 November 2016, issued in connection with U.S. Patent Application No. 15/228639, filed on 04 August 2016, 15 pages.	

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	2	20090031336		2009-01-29	CHAVEZ; Timothy R. et al.	
	3	20090060219		2009-03-05	INOHARA; Yuichi	
	4	20090070434		2009-03-12	HIMMELSTEIN; Richard B.	
	5	20090089327		2009-04-02	KALABOUKIS; Chris et al.	

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	6	20090097672		2009-04-16	BUIL; Vincent et al.	
	7	20090100189		2009-04-16	BAHREN; Frank et al.	
	8	20090124289		2009-05-14	NISHIDA; Osamu	
	9	20090157905		2009-06-18	DAVIS; Bradford C.	
	10	20090164655		2009-06-25	PETTERSSON; Mattias et al.	
	11	20090169030		2009-07-02	INOHARA; Yuichi	
	12	20090180632		2009-07-16	GOLDBERG; Andrew et al.	
	13	20090193345		2009-07-30	WENSLEY; Paul et al.	
	14	20090222115		2009-09-03	MALCOLM; David et al.	
	15	20090228919		2009-09-10	ZOTT; Joseph A. et al.	
	16	20090232326		2009-09-17	GORDON; Raymond L. et al.	

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	17	20090251604		2009-10-08	IYER; Suraj C.	
	18	20100004983		2010-01-07	DICKERSON; Stephanie et al.	
	19	20100010651		2010-01-14	KIRKEBY; Ole et al.	
	20	20100031366		2010-02-04	KNIGHT; Mark Stephen et al.	
	21	20100049835		2010-02-25	KO; Steve et al.	
	22	20100052843		2010-03-04	CANNISTRARO; Alan	
	23	20100067716		2010-03-18	KATAYAMA; Masaki	
	24	20100087089		2010-04-08	STRUTHERS; Scott et al.	
	25	20100142735		2010-06-10	YOON; Eung-Sik et al.	
	26	20100153097		2010-06-17	HOTHO; Gerard Herman et al.	
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	28	20100272270		2010-10-28	CHAIKIN; Peter et al.	
	29	20100284389		2010-11-11	RAMSAY; Max et al.	
	30	20100290643		2010-11-18	MIHELICH; Ryan J. et al.	
	31	20100299639		2010-11-25	RAMSAY; Max Gordon et al.	
	32	20110001632		2011-01-06	HOHORST; Andrew Gordon	
	33	20110002487		2011-01-06	PANTHER; Heiko et al.	
	34	20110044476		2011-02-24	BURLINGAME; Gregory B. et al.	
	35	20110066943		2011-03-17	BRILLON; Francois et al.	
	36	20110110533		2011-05-12	CHOI; Yeongha et al.	
	37	20110170710		2011-07-14	SON; Beak-Kwon	
	38	20110228944		2011-09-22	CROGHAN; Frank et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Application Number	16670109
	Filing Date	2019-10-31
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	Art Unit	
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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
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That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16670109
Filing Date	2019-10-31
First Named Inventor	KALLAI; Christopher
Art Unit	
Examiner Name	TBD
Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
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	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	1	Sonos, Inc. v. D&M Holdings Inc. et al., Order, provided October 7, 2016, 2 pages.	
	2	Sonos, Inc. v. D&M Holdings Inc. et al., Plaintiff's Opposition to Defendants' Motion for Leave to Amend Their Answer to Add the Defense of Inequitable Conduct, provided August 26, 2016, 25 pages.	
	3	Sonos, Inc. v. D&M Holdings Inc. et al., Redlined Exhibit B: Defendants' First Amended Answer to Plaintiffs' Third Amended Complaint, provided August 1, 2016, 27 pages.	
	4	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 206-1, Transcript of 101 Hearing (Nov. 28, 2016) (28 pages).	
	5	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 207, PUBLIC Joint Claim Construction Brief (Nov. 30, 2016) (88 pages).	
	6	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 214, D&M Post-Markman Letter (Dec. 22, 2016) (13 pages).	
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	8	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 219, Claim Construction Opinion (Jan. 12, 2017) (24 pages).	
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	14	Sonos Play:3 Product Guide; copyright 2004-2013; 15 pages.	
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	16	Sony: AIR-SA 50R Wireless Speaker, Copyright 2009, 2 pages.	
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	19	Sony: BD/DVD Home Theatre System Operating Instructions for BDV-IT1000/BDV-IS1000, Copyright 2008, 159 pages.	
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	27	Sony: Multi Channel AV Receiver Operating Instructions for STR-DN1000, Copyright 2009, 136 pages.	
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	34	UNITED STATES PATENT AND TRADEMARK OFFICE, U.S. Provisional Application No. 60/490,768 filed on 28 July 2003, entitled "Method for synchronizing audio playback between multiple networked devices," 13 pages.	
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	41	UPnP Design by Example, A Software Developers Guide to Universal Plug and Play Michael Jeronimo and JackWeast, Intel Press (D+M_0401307-818) (April 2003) (511 pages).	
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	45	WANIPConnection:1 Service Template Version 1.01 For UPnP Ver. 1.0 (November 12, 2001) (D+M_0401844-917) (74 pages).	
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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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	1	7096169		2006-08-22	CRUTCHFIELD; William G. et al.	
	2	7113999		2006-09-26	PESTONI; Florian et al.	
	3	7115017		2006-10-03	LAURSEN; Thomas et al.	
	4	7120168		2006-10-10	ZIMMERMANN; Klaus	
	5	7130316		2006-10-31	KOVACEVIC; Branko D.	
	6	7130368		2006-10-31	AWEYA; James et al.	
	7	7130608		2006-10-31	HOLLSTROM; Magnus et al.	
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	9	7136934		2006-11-14	CARTER; Harry Nick et al.	
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	13	7146260		2006-12-05	PRESTON; Dan Alan et al.	
	14	7158488		2007-01-02	FUJIMORI; Junichi	
	15	7161939		2007-01-09	ISRAEL; David et al.	
	16	7162315		2007-01-09	GILBERT; Erik J.	
	17	7171010		2007-01-30	MARTIN; Stephen L. et al.	
	18	7185090		2007-02-27	KOWALSKI; John Michael et al.	
	19	7187947		2007-03-06	WHITE; Russell W. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	20	7197148		2007-03-27	NOURSE; James D. et al.	
	21	7206367		2007-04-17	MOORE; Daniel L. et al.	
	22	7206618		2007-04-17	LATTO; Antonio T. et al.	
	23	7206967		2007-04-17	MARTI; Philippe et al.	
	24	7209795		2007-04-24	SULLIVAN; Gary E. et al.	
	25	7218708		2007-05-15	BEREZOWSKI; Andrew G. et al.	
	26	7236739		2007-06-26	CHANG; Chin-Chi et al.	
	27	7236773		2007-06-26	THOMAS; Graham	
	28	7257398		2007-08-14	UKITA; Yoshitaka et al.	
	29	7260616		2007-08-21	COOK; Fred S.	
	30	7263110		2007-08-28	FUJISHIRO; Yoshiya	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	31	7277547		2007-10-02	DELKER; Jason R. et al.	
	32	7286652		2007-10-23	AZRIEL; Gad et al.	
	33	7289631		2007-10-30	ISHIDOSHIRO; Takashi	
	34	7293060		2007-11-06	KOMSI; Asko	
	35	7295548		2007-11-13	BLANK; William Thomas et al.	
	36	7302468		2007-11-27	WIJERATNE; Viranga L.	
	37	7305694		2007-12-04	COMMONS; Christopher et al.	
	38	7308188		2007-12-11	NAMATAME; Kazushi	
	39	7310334		2007-12-18	FITZGERALD; Cary et al.	
	40	7312785		2007-12-25	TSUK; Robert W. et al.	
	41	7313593		2007-12-25	PULITO; Brian et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	42	7319764		2008-01-15	REID; Glenn et al.	
	43	7324857		2008-01-29	GODDARD; Mark D.	
	44	7330875		2008-02-12	PARASNIS; Shashank Mohan et al.	
	45	7333519		2008-02-19	SULLIVAN; Gary E. et al.	
	46	7346332		2008-03-18	MCCARTY; William A. et al.	
	47	7356011		2008-04-08	WATERS; Christopher J. F. et al.	
	48	7359006		2008-04-15	XIANG; Shuhua et al.	
	49	7366206		2008-04-29	LOCKRIDGE; Terry Wayne et al.	
	50	7372846		2008-05-13	ZWACK; Eduard	
	51	7391791		2008-06-24	BALASSANIAN; Edward et al.	
	52	7392102		2008-06-24	SULLIVAN; Gary E. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	53	7392481		2008-06-24	GEWICKEY; Greg et al.	
	54	7400644		2008-07-15	SAKAMOTO; Ichiro et al.	
	55	7412499		2008-08-12	CHANG; Chun-Shi et al.	
	56	7424267		2008-09-09	EISENBACH; Andre	
	57	7428310		2008-09-23	PARK; Jeong-Hyun	
	58	7457948		2008-11-25	BILICKSA; Carl et al.	
	59	7472058		2008-12-30	TSENG; Wei-Hsin et al.	
	60	7474677		2009-01-06	TROTT; Christian A.	
	61	7483538		2009-01-27	MCCARTY; William A. et al.	
	62	7483540		2009-01-27	RABINOWITZ; William M. et al.	
	63	7483958		2009-01-27	ELABBADY; Tarek Z. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	64	7490044		2009-02-10	KULKARNI; Abhijit	
	65	7492912		2009-02-17	CHUNG; Yun M. et al.	
	66	7505889		2009-03-17	SALMONSEN; Daniel R. et al.	
	67	7509181		2009-03-24	CHAMPION; Mark	
	68	7519188		2009-04-14	BERARDI; William et al.	
	69	7519667		2009-04-14	CAPPS; Stephen P.	
	70	7539551		2009-05-26	KOMURA; Tatsumi et al.	
	71	7548744		2009-06-16	OESTERLING; Christopher L. et al.	
	72	7548851		2009-06-16	LAU; Jack et al.	
	73	7558224		2009-07-07	SURAZSKI; Luke K. et al.	
	74	7558635		2009-07-07	THIEL; Steffen et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	75	7561932		2009-07-14	HOLMES; Stephen G. et al.	
	76	7571014		2009-08-04	LAMBOURNE; Robert A. et al.	
	77	7574274		2009-08-11	HOLMES; Stephen G.	
	78	7599685		2009-10-06	GOLDBERG; David et al.	
	79	7606174		2009-10-20	OCHI; Mitsunori et al.	
	80	7620468		2009-11-17	SHIMIZU; Masahiro	
	81	7626952		2009-12-01	SLEMMER; John B. et al.	
	82	7627825		2009-12-01	KAKUDA; Hiroshi	
	83	7630500		2009-12-08	BECKMAN; Paul E. et al.	
	84	7630501		2009-12-08	BLANK; William Tom et al.	
	85	7631119		2009-12-08	MOORE; Jeffrey C. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	86	7643894		2010-01-05	BRAITHWAITE; Michael et al.	
	87	7653344		2010-01-26	FELDMAN; Theodore Philip et al.	
	88	7657224		2010-02-02	GOLDBERG; David et al.	
	89	7657644		2010-02-02	ZHENG; Qinghua	
	90	7657910		2010-02-02	MCAULAY; Roger et al.	
	91	7665115		2010-02-16	GALLO; Kevin T. et al.	
	92	7668990		2010-02-23	KRZYZANOWSKI; Paul et al.	
	93	7669113		2010-02-23	MOORE; Jeff et al.	
	94	7669219		2010-02-23	SCOTT; Samuel T.III.	
	95	7672470		2010-03-02	LEE; Jae-Hoon	
	96	7675943		2010-03-09	MOSIG; Rudiger et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	97	7676044		2010-03-09	SASAKI; Toru et al.	
	98	7676142		2010-03-09	HUNG; Andy Chao	
	99	7688306		2010-03-30	WEHRENBERG; Paul J. et al.	
	100	7689304		2010-03-30	SASAKI; Yoshio	
	101	7689305		2010-03-30	KREIFELDT; Richard A. et al.	
	102	7702279		2010-04-20	KO; Steve et al.	
	103	7702403		2010-04-20	GLADWIN; Stephen Christopher et al.	
	104	7710941		2010-05-04	RIETSCHEL; Johannes et al.	
	105	7711774		2010-05-04	ROTHSCHILD; Leigh M.	
	106	7720096		2010-05-18	KLEMETS; Anders E.	
	107	7721032		2010-05-18	BUSHELL; John Samuel et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	108	7742740		2010-06-22	GOLDBERG; David et al.	
	109	7742832		2010-06-22	FELDMAN; Theodore Philip et al.	
	110	7743009		2010-06-22	HANGARTNER; Rick et al.	
	111	7746906		2010-06-29	JINZAKI; Akira et al.	
	112	7761176		2010-07-20	BEN-YAACOV YAACOV . et al.	
	113	7765315		2010-07-27	BATSON; James D. et al.	
	114	7792311		2010-09-07	HOLMGREN; Steve F. et al.	
	115	7793206		2010-09-07	LIM; Seh E. et al.	
	116	7804972		2010-09-28	MELANSON; John L.	
	117	7805210		2010-09-28	CUCOS; Alex et al.	
	118	7817960		2010-10-19	TAN; Min-Liang et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	119	7827259		2010-11-02	HELLER; David et al.	
	120	7831054		2010-11-09	BALL; Steven J. et al.	
	121	7835689		2010-11-16	GOLDBERG; David et al.	
	122	7849181		2010-12-07	SLEMMER; John B. et al.	
	123	7853341		2010-12-14	MCCARTY; William A. et al.	
	124	7865137		2011-01-04	GOLDBERG; David et al.	
	125	7882234		2011-02-01	WATANABE; Mitsuhiro et al.	
	126	7885622		2011-02-08	KRAMPF; Steven S. et al.	
	127	7907819		2011-03-15	ANDO; Hideo et al.	
	128	7916877		2011-03-29	GOLDBERG; David et al.	
	129	7917082		2011-03-29	GOLDBERG; David et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	130	7933418		2011-04-26	MORISHIMA; Morito	
	131	7934239		2011-04-26	DAGMAN; Vadim	
	132	7945636		2011-05-17	NELSON; Hortense Kathleen et al.	
	133	7945708		2011-05-17	OHKITA; Hideki	
	134	7958441		2011-06-07	HELLER; David et al.	
	135	7962482		2011-06-14	HANDMAN; Etienne F. et al.	
	136	7966388		2011-06-21	PUGACZEWSKI; John T. et al.	
	137	7975051		2011-07-05	SAINT CLAIR; Gordon et al.	
	138	7987294		2011-07-26	BRYCE; Stuart et al.	
	139	7995732		2011-08-09	KOCH; Robert et al.	
	140	7996566		2011-08-09	SYLVAIN; Dany et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	141	7996588		2011-08-09	SUBBIAH; Baranitharan et al.	
	142	8014423		2011-09-06	THALER; Thomas et al.	
	143	8015306		2011-09-06	BOWMAN; Timothy D.	
	144	8020023		2011-09-13	MILLINGTON; Nicholas A.J. et al.	
	145	8023663		2011-09-20	GOLDBERG; David	
	146	8028038		2011-09-27	WEEL; Martin	
	147	8028323		2011-09-27	WEEL; Martin	
	148	8041062		2011-10-18	COHEN; Ephram et al.	
	149	8045721		2011-10-25	BURGAN; John M. et al.	
	150	8045952		2011-10-25	QURESHEY; Safi et al.	
	151	8050203		2011-11-01	JACOBSEN; Phillip et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	152	8050652		2011-11-01	QURESHEY; Safi et al.	
	153	8054987		2011-11-08	SEYDOUX; Henri	
	154	8055364		2011-11-08	CHAMPION; Mark	
	155	8063698		2011-11-22	HOWARD; Damian	
	156	8074253		2011-12-06	NATHAN; Guy	
	157	8086287		2011-12-27	MOONEY; Philip D. et al.	
	158	8086752		2011-12-27	MILLINGTON; Nicholas A.J. et al.	
	159	8090317		2012-01-03	BURGE; Benjamin D. et al.	
	160	8103009		2012-01-24	MCCARTY; William A. et al.	
	161	8111132		2012-02-07	ALLEN; William A. et al.	
	162	8112032		2012-02-07	KO; Steve et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	163	8116476		2012-02-14	INOHARA; Yuichi	
	164	8126172		2012-02-28	HORBACH; Ulrich et al.	
	165	8131389		2012-03-06	HARDWICK; John C. et al.	
	166	8131390		2012-03-06	BRAITHWAITE; Michael et al.	
	167	8135141		2012-03-13	SHIBA; Kenji	
	168	8139774		2012-03-20	BERARDI; William et al.	
	169	8144883		2012-03-27	PDERSEN; Jan A. et al.	
	170	8148622		2012-04-03	ROTHKOPF; Fletcher R. et al.	
	171	8150079		2012-04-03	MAEDA; Kazuhiro et al.	
	172	8160281		2012-04-17	KIM; Young-Tae et al.	
	173	8169938		2012-05-01	DUCHSCHER; Rob et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	174	8170222		2012-05-01	DUNKO; Gregory A.	
	175	8170260		2012-05-01	REINING; Friedrich et al.	
	176	8175292		2012-05-08	AYLWARD; Jrichard et al.	
	177	8175297		2012-05-08	HO; Harvey et al.	
	178	8185674		2012-05-22	MOORE; Jeffrey C. et al.	
	179	8189824		2012-05-29	STRAUSS; Michael et al.	
	180	8194874		2012-06-05	STAROBIN; Bradley M. et al.	
	181	8204890		2012-06-19	GOGAN; Brian et al.	
	182	8208653		2012-06-26	EO; Kil-Su et al.	
	183	8214447		2012-07-03	DESLIPPE; Mark H. et al.	
	184	8214740		2012-07-03	JOHNSON; Timothy	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	185	8214873		2012-07-03	WEEL; Martin	
	186	8218790		2012-07-10	BULL; William et al.	
	187	8229125		2012-07-24	SHORT; William R.	
	188	8230099		2012-07-24	WEEL; Martin	
	189	8233029		2012-07-31	YOSHIDA; Junji et al.	
	190	8233632		2012-07-31	MACDONALD; Andrew John et al.	
	191	8233635		2012-07-31	SHIBA; Kenji	
	192	8233648		2012-07-31	SOREK; Noam et al.	
	193	8234395		2012-07-31	MILLINGTON; Nicholas A J. et al.	
	194	8238578		2012-08-07	AYLWARD; J. Richard	
	195	8239559		2012-08-07	RAJAPAKSE; Ravi	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	196	8239748		2012-08-07	MOORE; Jeff et al.	
	197	8243961		2012-08-14	MORRILL; Daniel Lawrence	
	198	8265310		2012-09-11	BERARDI; William et al.	
	199	8279709		2012-10-02	CHOISEL; Sylvain et al.	
	200	8281001		2012-10-02	BUSAM; Vincent R. et al.	
	201	8285404		2012-10-09	KEKKI; Samuli T.	
	202	8290185		2012-10-16	KIM; Jong-Bae	
	203	8290603		2012-10-16	LAMBOURNE; Robert A.	
	204	8300845		2012-10-30	ZUREK; Robert et al.	
	205	8306235		2012-11-06	MAHOWALD; Peter H.	
	206	8311226		2012-11-13	LORGEOUX; Mickael et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	207	8315555		2012-11-20	KO; Steve et al.	
	208	8316147		2012-11-20	BATSON; James D. et al.	
	209	8325931		2012-12-04	HOWARD; Damian et al.	
	210	8325935		2012-12-04	RUTSCHMAN; Phillip	
	211	8331585		2012-12-11	HAGEN; Roar et al.	
	212	8340330		2012-12-25	YOON; Eung-Sik et al.	
	213	8345709		2013-01-01	NITZPON; Hans-Juergen et al.	
	214	8364295		2013-01-29	BECKMANN; Paul E. et al.	
	215	8370678		2013-02-05	MILLINGTON; Nicholas A. J. et al.	
	216	8374595		2013-02-12	CHIEN; Chih-Ling et al.	
	217	8391501		2013-03-05	KHAWAND; Charbel et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	218	8407623		2013-03-26	KERR; Duncan et al.	
	219	8411883		2013-04-02	MATSUMOTO; Keishi	
	220	8423659		2013-04-16	MILLINGTON; Nicholas A. J.	
	221	8423893		2013-04-16	RAMSAY; Max Gordon et al.	
	222	8432851		2013-04-30	XU; Guijin et al.	
	223	8433076		2013-04-30	ZUREK; Robert et al.	
	224	8442239		2013-05-14	BRUELLE-DREWS CHRISTIAN . et al.	
	225	8452020		2013-05-28	GREGG; Justin et al.	
	226	8457334		2013-06-04	YOON; Eung-Sik et al.	
	227	8463184		2013-06-11	DUA; Robin	
	228	8463875		2013-06-11	KATZ; Hagay et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	229	8473844		2013-06-25	KREIFELDT; Richard A. et al.	
	230	8477958		2013-07-02	MOELLER; Klaus R. et al.	
	231	8483853		2013-07-09	LAMBOURNE; Robert A.	
	232	8498726		2013-07-30	KIM; Young-Eon et al.	
	233	8509211		2013-08-13	TROTTER; John et al.	
	234	8520870		2013-08-27	SATO; Katsuyuki et al.	
	235	8565455		2013-10-22	WORRELL; Devon et al.	
	236	8577045		2013-11-05	GIBBS; Jonathan A.	
	237	8577048		2013-11-05	CHAIKIN; Peter et al.	
	238	8588432		2013-11-19	SIMON; Jeffrey Franklin	
	239	8588949		2013-11-19	LAMBOURNE; Robert A. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	240	8600075		2013-12-03	LIM; Soo-Chan	
	241	8600084		2013-12-03	GARRETT; James E.	
	242	8611559		2013-12-17	SANDERS; Christopher	
	243	8615091		2013-12-24	TERWAL; Remco	
	244	8620006		2013-12-31	BERARDI; William et al.	
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	Application Number	16670109
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	Filing Date	2019-10-31
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	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	Art Unit	
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	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

	1	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Reply in Support of Partial Motion for Judgment on the Pleadings, filed June 10, 2016, 15 pages.	
	2	Sonos, Inc. v. D&M Holdings Inc. et al., Exhibit A: Defendants' First Amended Answer to Plaintiffs' Third Amended Complaint, provided August 1, 2016, 26 pages.	
	3	Sonos, Inc. v. D&M Holdings Inc. et al., Exhibit A: Defendants' Second Amended Answer to Plaintiffs' Third Amended Complaint, filed September 9, 2016, 43 pages.	
	4	Sonos, Inc. v. D&M Holdings Inc. et al., Exhibit A: Defendants' Second Amended Answer to Plaintiffs' Third Amended Complaint, provided September 9, 2016, 88 pages.	
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	7	Sonos, Inc. v. D&M Holdings Inc. et al., Opening Brief in Support of Defendants' Partial Motion for Judgment on the Pleadings for Lack of Patent-Eligible Subject Matter, filed May 6, 2016, 27 pages.	
	8	Sonos, Inc. v. D&M Holdings Inc. et al., Plaintiff Sonos, Inc.'s Opening Claim Construction Brief, filed September 9, 2016, 26 pages.	
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	10	Sonos, Inc. v. D&M Holdings Inc. et al., Reply Brief in Support of Defendants' Motion for Leave to Amend their Answer to Add the Defense of Inequitable Conduct, provided November 10, 2016, 16 pages.	
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	16	Sonos, Inc. v. D&M Holdings, Inc. (No. 14-1330-RGA), Defendants' Final Invalidity Contentions (Jan. 18, 2017) (106 pages).	
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	18	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 242, US District Judge Andrews 101 Opinion, Mar. 13, 2017, 16 pages.	
	19	Sonos, Inc. v D&M Holdings, Sonos Supp Opening Markman Brief including Exhibits, 3 March 2017, 17 pages.	
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	23	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 10: Defendants' Invalidity Contentions for U.S. Patent No. 9,219,959 filed September 27, 2016, 236 pages.	
	24	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 11: Defendants' Invalidity Contentions for U.S. Design Patent No. D559,197 filed September 27, 2016, 52 pages.	
	25	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 2: Defendants' Invalidity Contentions for U.S. Patent No. 8,588,949 filed September 27, 2016, 224 pages.	
	26	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 3: Defendants' Invalidity Contentions for U.S. Patent No. 8,843,224 filed September 27, 2016, 147 pages.	
	27	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 4: Defendants' Invalidity Contentions for U.S. Patent No. 8,938,312 filed September 27, 2016, 229 pages.	
	28	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 5: Defendants' Invalidity Contentions for U.S. Patent No. 8,938,637 filed September 27, 2016, 213 pages.	
	29	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 6: Defendants' Invalidity Contentions for U.S. Patent No. 9,042,556 filed September 27, 2016, 162 pages.	
	30	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 7: Defendants' Invalidity Contentions for U.S. Patent No. 9,195,258 filed September 27, 2016, 418 pages.	
	31	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 8: Defendants' Invalidity Contentions for U.S. Patent No. 9,202,509 filed September 27, 2016, 331 pages.	
	32	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 9: Defendants' Invalidity Contentions for U.S. Patent No. 9,213,357 filed September 27, 2016, 251 pages.	
	33	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 1: Defendants' Invalidity Contentions for U.S. Patent No. 7,571,014 filed April 15, 2016, 161 pages.	

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	34	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 10: Defendants' Invalidity Contentions for U.S. Patent No. 9,213,357 filed April 15, 2016, 244 pages.	
	35	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 11: Defendants' Invalidity Contentions for U.S. Patent No. 9,219,959 filed April 15, 2016, 172 pages.	
	36	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 12: Defendants' Invalidity Contentions for U.S. Design Patent No. D559,197 filed April 15, 2016, 36 pages.	
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	45	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Preliminary Identification of Prior Art References, provided July 29, 2016, 5 pages.	
	46	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Brief in Support of their Motion for Leave to Amend their Answer to Add the Defense of Inequitable Conduct, provided October 12, 2016, 24 pages.	
	47	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Opposition to Sonos's Motion to Strike Defendants' New Amended Answer Submitted with their Reply, provided October 3, 2016, 15 pages.	
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	49	Sonos, Inc. v. D&M Holdings Inc. et al., Exhibit B: Defendants' Second Amended Answer to Plaintiffs' Third Amended Complaint, provided October 12, 2016, 43 pages.	
	50	Sonos, Inc. v. D&M Holdings Inc. et al., Opening Brief in Support of Defendants' Motion for Leave to Amend Their Answer to Add the Defense of Inequitable Conduct, provided August 1, 2016, 11 pages.	

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	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16670109
	Filing Date	2019-10-31
	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
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	Examiner Name	TBD
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	First Named Inventor	KALLAI; Christopher
	Art Unit	
	Examiner Name	TBD
	Attorney Docket Number	11-0401-CON1019A

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-11-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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11-0501-PCT		
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/US2012/045894	**09 JULY 2012 (09.07.2012)**	19 JULY 2011 (19.07.2011)

Applicant

SONOS, INC. et al

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/045894

A. CLASSIFICATION OF SUBJECT MATTER

H04R 3/00(2006.01)i, H04R 5/02(2006.01)i, H04S 5/02(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H04R 3/00; G06F 15/16; H04R 5/02; H04R 5/00; H04H 5/00; H04R 29/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
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Japanese utility models and applications for utility models

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eKOMPASS(KIPO internal) & Keywords: speaker orientation, roll, pitch, frequency, rotation, stereophonic, monaural, shaping sound, sensor, accelerometer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2008-0144864 A1 (GRAEME JOHN HUON) 19 June 2008 See abstract, paragraphs [0217],[0221],[0249],[0283], claim 165 and figures 1-10.	1-30
A	US 05553147 A (JOSEPH E.M. PINEAU) 03 September 1996 See abstract, claims 1,9 and figures 3-10.	1-30
A	US 2007-0003067 A1 (STEFAN GIERL et al.) 04 January 2007 See abstract, paragraphs [0013]-[0018] and claim 23.	1-30
A	US 2002-0124097 A1 (LARSON J. ISELY et al.) 05 September 2002 See abstract, claims 1,8 and figures 1-5.	1-30

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Date of the actual completion of the international search	Date of mailing of the international search report
26 DECEMBER 2012 (26.12.2012)	**26 DECEMBER 2012 (26.12.2012)**
Name and mailing address of the ISA/KR Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer JEONG, So Yeon Telephone No. 82-42-481-5656

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Information on patent family members

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		US 7889871 B2	15.02.2011
US 2002-0124097 A1	05.09.2002	None	

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
GEORGE CHRISTOPHER N.

HANLEY, FLIGHT & ZIMMERMAN, LLC. 150 S.
WACKER DRIVE, SUITE 2100 CHICAGO IL 60606 USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)*	**26 DECEMBER 2012 (26.12.2012)**
Applicant's or agent's file reference: 11-0501-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2012/045894	**09 JULY 2012 (09.07.2012)**	19 JULY 2011 (19.07.2011)

International Patent Classification (IPC) or both national classification and IPC

H04R 3/00(2006.01)i, H04R 5/02(2006.01)i, H04S 5/02(2006.01)i

Applicant

SONOS, INC. et al

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. 82-42-472-7140	26 DECEMBER 2012 (26.12.2012)	JEONG, So Yeon Telephone No.82-42-481-5656

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2012/045894

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

   a. a sequence listing filed or furnished
      ☐ on paper
      ☐ in electronic form

   b. time of filing or furnishing
      ☐ contained in the international application as filed.
      ☐ filed together with the international application in electronic form.
      ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additionl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2012/045894

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-30	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-30	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1-30	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 2008-0144864 A1 (GRAEME JOHN HUON) 19 June 2008
D2: US 05553147 A (JOSEPH E.M. PINEAU) 03 September 1996
D3: US 2007-0003067 A1 (STEFAN GIERL et al.) 04 January 2007
D4: US 2002-0124097 A1 (LARSON J. ISELY et al.) 05 September 2002

1. Novelty and Inventive Step

1.1 Concerning Claims 1-10

The subject matter of claim 1 differs from these prior art documents in that a method for shaping sound comprises configuring the playback device to reproduce a stereophonic or monaural sound using a plurality of speakers based on an orientation and an audio data stream. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claim 1 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Claims 2-10 are dependent on claim 1 and therefore meet the requirements of PCT Article 33(2) and (3).

1.2 Concerning Claims 11-20

The subject matter of claim 11 differs from these prior art documents in that a tangible computer readable storage medium including a set of instructions for execution by processor when executed implement a method for shaping sound comprises a playback device reproduces a stereophonic or monaural sound using a plurality of speakers based on an orientation and an audio data stream. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claim 11 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Claims 12-20 are dependent on claim 11 and therefore meet the requirements of PCT Article 33(2) and (3).

Continued on Supplemental Box

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

Box V

1.3 Concerning Claims 21-30

Since the apparatus and the method of claims 21 and 1 are substantially same except the category aspect, claim 21 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Claims 22-30 are dependent on claim 21 and therefore meet the requirements of PCT Article 33(2) and (3).

2. Industrial Applicability

Claims 1-30 are industrially applicable under PCT Article 33(4).

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
11-0401PCT		
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/IB2012/052071	26/04/2012	08/04/2011
Applicant		
SONOS, INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

[X] It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
   a. With regard to the **language,** the international search was carried out on the basis of:
      [X] the international application in the language in which it was filed
      [ ] a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
   b. [ ] This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).
   c. [ ] With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. [ ] **Certain claims were found unsearchable** (See Box No. II)

3. [ ] **Unity of invention is lacking** (see Box No III)

4. With regard to the **title,**
   [X] the text is approved as submitted by the applicant
   [ ] the text has been established by this Authority to read as follows:

5. With regard to the **abstract,**
   [X] the text is approved as submitted by the applicant
   [ ] the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings,**
   a. the figure of the **drawings** to be published with the abstract is Figure No. 1
      [X] as suggested by the applicant
      [ ] as selected by this Authority, because the applicant failed to suggest a figure
      [ ] as selected by this Authority, because this figure better characterizes the invention
   b. [ ] none of the figures is to be published with the abstract

Form PCT/ISA/210 (first sheet) (July 2009)

A. CLASSIFICATION OF SUBJECT MATTER
INV. H04R27/00 H04S7/00
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H04R H04S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, COMPENDEX, INSPEC, PAJ, IBM-TDB, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/124097 A1 (ISELY LARSON J [US] ET AL) 5 September 2002 (2002-09-05) page 1, paragraph 4 - page 3, paragraph 20 page 4, paragraph 35 - page 8, paragraph 71 claims 1-17,25-38; figures 1-7	1-29
X	US 7 571 014 B1 (LAMBOURNE ROBERT A [US] ET AL) 4 August 2009 (2009-08-04) column 2, line 17 - column 3, line 34 column 4, line 11 - column 14, line 29 claims 1-17,25-35; figures 1-2C,5-7D	1-29

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
10 August 2012	23/08/2012

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Meiser, Jürgen

1

Form PCT/ISA/210 (second sheet) (April 2005)

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002124097 A1	05-09-2002	NONE	
US 7571014 B1	04-08-2009	NONE	

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/IB2012/052071	26.04.2012	08.04.2011

International Patent Classification (IPC) or both national classification and IPC
INV. H04R27/00 H04S7/00

Applicant
SONOS, INC.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:	Date of completion of this opinion	Authorized Officer
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Fax: +49 89 2399 - 4465	see form PCT/ISA/210	Meiser, Jürgen Telephone No. +49 89 2399-0

Form PCT/ISA/237 (Cover Sheet) (July 2009)

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	
	No:	Claims	1-29
Inventive step (IS)	Yes:	Claims	
	No:	Claims	1-29
Industrial applicability (IA)	Yes:	Claims	1-29
	No:	Claims	

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Reference is made to the following documents:

D1 US 2002/124097 A1 (ISELY LARSON J [US] ET AL) 5 September 2002 (2002-09-05)

D2 US 7 571 014 B1 (LAMBOURNE ROBERT A [US] ET AL) 4 August 2009 (2009-08-04)

2 The present application does not meet the criteria of Article 33(2) PCT, because the subject-matter of **claims 1 and 18** is not new.

2.1 With respect to **claim 1**, document **D1** discloses an apparatus for providing audio in a multi-channel listening environment (cf. figures 1 and 4), the apparatus comprising:
- a network interface to facilitate communication on a network, wherein the network interface receives audio data over the network (cf. figure 1; page 4, paragraphs [35] - [39]);
- a plurality of speaker drivers (cf. figures 1 and 2, "networked audio device105"; page 4, paragraphs [37]-[42]);
- an amplifier for powering the plurality of speaker drivers (cf. figures 1 and 2); and
- a processor for processing the audio data to be output through the plurality of speaker drivers and further for configuring a first equalization of the output from the plurality of speaker drivers in accordance with a first type of pairing and configuring a second equalization of the output from the plurality of speaker drivers in accordance with a second type of pairing (cf. figures 2-4 and 7; page 4, paragraphs [43] and [44]; page 5, paragraphs [48]-[50]; page 7, paragraphs [65]-[70]).

2.2 Document **D2** also discloses all the features of **claim 1** in combination.

In detail, **D2** discloses an apparatus for providing audio in a multi-channel listening environment (cf. figure 1), the apparatus comprising:
- a network interface to facilitate communication on a network, wherein the network interface receives audio data over the network (cf. figures 1-2A; column 4, line 11 - column 6, line 62);
- a plurality of speaker drivers (cf. figure 1-2A; column 6, lines 18 - column 7, line 22);
- an amplifier for powering the plurality of speaker drivers (cf. figure 2A;

column 6, lines 18 - column 7, line 22); and
- a processor for processing the audio data to be output through the plurality of speaker drivers and further for configuring a first equalization of the output from the plurality of speaker drivers in accordance with a first type of pairing and configuring a second equalization of the output from the plurality of speaker drivers in accordance with a second type of pairing (cf. figures 1-2A, 3A and 7A-7D; column 4, lines 11-27; column 9, line 24 - column 10, line 36; column 14, lines 6-29).

2.3 **Method claim 18** corresponds closely to the independent apparatus claim 1 in that it defines a respective method step for each structural feature of claim 1. Such a method is also not novel with regard to each of the documents **D1** (cf. claims 25-40) and **D2** (cf. claims 1-24).

3 **Dependent claims 2-17 and 19-29** do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and inventive step:

claims 2-6, 19-23: cf. D1, figures 2-4 and 7; page 4, paragraphs [43] and [44]; page 5, paragraphs [48]-[50]; page 7, paragraphs [65]-[70]; D2, figures 1-2A, 3A and 7A-7D; column 4, lines 11-27; column 9, line 24 - column 10, line 36; column 14, lines 6-29; the option of pairing with a playback device and the allocation of audio channels is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill;

claims 10, 11, 14, 26 and 27: cf. D1, page 2, paragraphs [17] and [18]; page 4, paragraphs [39] - [42]; claims 1, 6 and 7; D2, figures 2B and 2C; column 7, lines 23-49; column 8, line 19 - column 9, line 6;

claim 13: cf. D2, column 5, lines 14-21;

claim 7-9, 16-17, 24-25 and 28-29: the audio content in the different zones can be reproduced via different modes and the audio data is separated into different audio channels; cf. D1, page 1, paragraph [5]; page 4, paragraphs [37]-[39];

claim 12: the use of a button in order to choose the channel of the playback device is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill;

claim 15: cf. D2, column 2, line 17 - column 3, line 38.

4 The application does not meet the requirements of Article 6 PCT, because **claims 1, 4, 8, 11, 21 and 24** are not clear.

4.1 The passages "...for configuring a first equalization...", "...in accordance with a first type of pairing", "...configuring a second equalization..." and "...in accordance with a second type of pairing" in **claim 1** are not clear.

4.2 **Claims 4 and 21** refers to a second playback device whereas there is no "first" playback device.

4.3 **Claims 8, 11 and 24** refer to a "consolidated mode" which mode is not defined.

Possible steps after receipt of the international search report (ISR) and written opinion of the International Searching Authority (WO-ISA)

General information	For all international applications filed on or after 01/01/2004 the competent ISA will establish an ISR. It is accompanied by the WO-ISA. Unlike the former written opinion of the IPEA (Rule 66.2 PCT), the WO-ISA is not meant to be responded to, but to be taken into consideration for further procedural steps. This document explains about the possibilities.
Amending claims under Art. 19 PCT	Within 2 months after the date of mailing of the ISR and the WO-ISA the applicant may file amended claims under Art. 19 PCT directly with the International Bureau of WIPO. The PCT reform of 2004 did not change this procedure. For further information please see Rule 46 PCT as well as form PCT/ISA/220 and the corresponding Notes to form PCT/ISA/220.
Filing a demand for international preliminary examination	In principle, the WO-ISA will be considered as the written opinion of the IPEA. This should, in many cases, make it unnecessary to file a demand for international preliminary examination. If the applicant nevertheless wishes to file a demand this must be done before expiry of 3 months after the date of mailing of the ISR/WO-ISA or 22 months after priority date, whichever expires later (Rule 54bis PCT). Amendments under Art. 34 PCT can be filed with the IPEA as before, normally at the same time as filing the demand (Rule 66.1 (b) PCT). If a demand for international preliminary examination is filed and no comments/amendments have been received the WO-ISA will be transformed by the IPEA into an IPRP (International Preliminary Report on Patentability) which would merely reflect the content of the WO-ISA. The demand can still be withdrawn (Art. 37 PCT).
Filing informal comments	After receipt of the ISR/WO-ISA the applicant may file informal comments on the WO-ISA directly with the International Bureau of WIPO. These will be communicated to the designated Offices together with the IPRP (International Preliminary Report on Patentability) at 30 months from the priority date. Please also refer to the next box.
End of the international phase	At the end of the international phase the International Bureau of WIPO will transform the WO-ISA or, if a demand was filed, the written opinion of the IPEA into the IPRP, which will then be transmitted together with possible informal comments to the designated Offices. The IPRP replaces the former IPER (international preliminary examination report).
Relevant PCT Rules and more information	Rule 43 PCT, Rule 43bis PCT, Rule 44 PCT, Rule 44bis PCT, PCT Newsletter 12/2003, OJ 11/2003, OJ 12/2003

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
JASPER JOSEPH T.

HANLEY, FLIGHT & ZIMMERMAN, LLC 150 S.
WACKER DRIVE, SUITE 2100 CHICAGO IL 60606 USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)*	**30 September 2013 (30.09.2013)**
Applicant's or agent's file reference 12-0402-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/046386	**18 June 2013 (18.06.2013)**	26 June 2012 (26.06.2012)

International Patent Classification (IPC) or both national classification and IPC

G06Q 50/10(2012.01)i

Applicant

SONOS, INC.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. +82-42-472-7140	27 September 2013 (27.09.2013)	KIM Sung Gon Telephone No. +82-42-481-8746

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/046386

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

   a. a sequence listing filed or furnished
      ☐ on paper
      ☐ in electronic form

   b. time of filing or furnishing
      ☐ contained in the international application as filed.
      ☐ filed together with the international application in electronic form.
      ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/046386

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-21	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-21	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 7483958 B1 (TAREK Z. ELABBADY et al.) 27 January 2009
D2: US 2010-0228740 A1 (ALAN CANNISTRARO et al.) 09 September 2010

1. Novelty and Inventive Step

1.1 Claims 1-10

1.1.1 Independent claim 1

D1, which is considered to be the closest prior art to the subject matter of claim 1, discloses a method comprising: presenting media content information (e.g., music file, a play list) to the user, determining whether an original media playing license associated with the particular media contents file is available, generating a temporary media playing license from the original media playing license, the temporary media playing license specifying restrictions relating to playback of the particular media content file via the home network device; and sending the temporary media playing license to the home network device (See abstract, column 11, lines 1-20, claim 1, figure 4 in D1). Claim 1 differs from D1 in facilitating addition of content to the playlist by at least one participating user; and playback of content from the playlist in the restricted playback mode. However, D2 discloses a method comprising: receiving from at least one of the plurality of user devices a vote on a media item; and organizing the playlist based on the received votes (See abstract, paragraphs [0047]-[0057], claim 1, figure 4 in D2). Accordingly, claim 1 would have been obvious over D1 and D2. Therefore, claim 1 lacks an inventive step under PCT Article 33(3).

Continued on Supplemental Box

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of : Box No. V

1.1.2 Dependent claims 2-10

The additional feature of claim 2 is identical to the feature of D1 in that media items in the playlist are automatically chosen and added to the playlist by a program on the playlist host device (See claim 6 in D1). Accordingly, claim 2 would have been obvious over D1 and D2. Therefore, claim 2 lacks an inventive step under PCT Article 33(3).

Claim 3 further specifies authenticating the at least one participating user to enable the at least one participating user to add content to the playlist in the restricted playback mode. However, the additional feature of claim 3 is virtually suggested by the feature of D2 considering that the host receives an opt-in command from an authorized user and the opt-in command instructs the host to allow remote access to the playlist (See abstract, paragraphs [0047]-[0057], figure 4 in D2). Accordingly, claim 3 would have been obvious over D1 and D2. Therefore, claim 3 lacks an inventive step under PCT Article 33(3).

The additional feature of claim 4 is identical to the feature of D2 in receiving from at least one of the plurality of user devices a vote on a media item; and organizing the playlist based on the received votes (See abstract, paragraphs [0047]-[0057], claim 1, figure 4 in D2). Accordingly, claim 4 would have been obvious over D1 and D2. Therefore, claim 4 lacks an inventive step under PCT Article 33(3).

Claims 5, 6 further specify that facilitating addition of content comprises accepting user selection of the content from a list of available content via a graphical user interface, and the list of available content includes a library of shared music available via a network. However, the additional features of claims 5, 6 are virtually suggested by the feature of D1 considering presenting media content information (e.g., metadata from the media library) to the user through a display screen, and selecting one or more music files, a play list, or other grouping of music files by the user (See abstract, column 11, lines 1-20, claim 1, figure 4 in D1). And D2 discloses a step of sending a playlist on a host device to a plurality of portable devices for display on a graphical user interface (See paragraph [0009] in D2). Accordingly, claims 5, 6 would have been obvious over D1 and D2. Therefore, claims 5, 6 lack an inventive step under PCT Article 33(3).

Claim 7 further comprises that the restricted playback mode is initiated and ended by a host user according to user authorization. However, the additional feature of claim 7 is merely a

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Continuation of: Previous Page

matter of design option when the general knowledge in relevant field of the art is used. Accordingly, claim 7 would have been obvious over D1 and D2. Therefore, claim 7 lacks an inventive step under PCT Article 33(3).

Claim 8 further specifies configuring the restricted playback mode for a fixed time interval. However, the additional feature of claim 8 is virtually suggested by the feature of D2 considering ordering changes can be postponed until the interval since the last touch event has exceeded 2 seconds (See paragraph [0089] in D2). Accordingly, claim 8 would have been obvious over D1 and D2. Therefore, claim 8 lacks an inventive step under PCT Article 33(3).

Claim 9 further specifies that a restricted playback mode includes a specified configuration of zones. However, the additional feature of claim 9 is virtually suggested by the feature of D1 considering that the media content license may be associated with a specific entity or with multiple entities (e.g., groups) (See column 7, lines 61-66 in D1). Accordingly, claim 9 would have been obvious over D1 and D2. Therefore, claim 9 lacks an inventive step under PCT Article 33(3).

Claim 10 further comprises that the subset of playback functions includes limited user interaction with at least one of zone configuration and content playback parameters. However, the additional feature of claim 10 is merely a matter of design option when the general knowledge in relevant field of the art is used. Accordingly, claim 10 would have been obvious over D1 and D2. Therefore, claim 10 lacks an inventive step under PCT Article 33(3).

1.2 Claims 11-20

1.2.1 Independent claim 11

Claim 11 relates to a tangible computer readable storage medium including instructions which, when executed by a processor, are to implement at least a method. But it shares similar technical features with claim 1. Accordingly, the same reasoning applies to claim 11. Therefore, claim 11 lacks an inventive step under PCT Article 33(3).

1.2.2 Dependent claims 12-20

Claims 12-20 share the same technical features with claims 2-10, respectively. Accordingly, the

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of : Previous Page

same reasoning applies to claims 12-20. Therefore, claims 12-20 lack an inventive step under PCT Article 33(3).

1.3 Independent claim 21

Claim 21 relates to a media playback system, but it shares similar technical features with claim 1. Accordingly, the same reasoning applies to claim 21. Therefore, claim 21 lacks an inventive step under PCT Article 33(3).

2. Industrial Applicability

Claims 1-21 are industrially applicable under PCT Article 33(4).

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12-0402-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. **PCT/US2013/046386**	International filing date *(day/month/year)* **18 June 2013 (18.06.2013)**	(Earliest) Priority Date *(day/month/year)* 26 June 2012 (26.06.2012)
Applicant **SONOS, INC.**		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
   a. With regard to the **language**, the international search was carried out on the basis of:
      ☒ the international application in the language in which it was filed
      ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
   b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).
   c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.
2. ☐ **Certain claims were found unsearchable** (See Box No. II)
3. ☐ **Unity of invention is lacking** (See Box No. III)
4. With regard to the **title,**
   ☒ the text is approved as submitted by the applicant.
   ☐ the text has been established by this Authority to read as follows:
5. With regard to the **abstract,**
   ☒ the text is approved as submitted by the applicant.
   ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. With regard to the drawings,
   a. the figure of the **drawings** to be published with the abstract is Figure No. 1
      ☐ as suggested by the applicant.
      ☒ as selected by this Authority, because the applicant failed to suggest a figure.
      ☐ as selected by this Authority, because this figure better characterizes the invention.
   b. ☐ none of the figure is to be published with the abstract.

Form PCT/ISA/210 (first sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/046386

A. CLASSIFICATION OF SUBJECT MATTER

G06Q 50/10(2012.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G06Q 50/10; G06F 15/16; H04N 7/173; G06F 7/00; G06F 17/30; H04L 9/00; H04W 40/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords:playlist, authorization, participate, zone:

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 7483958 B1 (TAREK Z. ELABBADY et al.) 27 January 2009 See abstract, column 7, lines 61-66, column 11, lines 1-20, claims 1, 6 and figure 4.	1-21
Y	US 2010-0228740 A1 (ALAN CANNISTRARO et al.) 09 September 2010 See abstract, paragraphs [0009], [0036]-[0037], [0047]-[0057], [0089], claim 1 and figure 4.	1-21
A	US 2012-0129446 A1 (STEVE KO et al.) 24 May 2012 See abstract, paragraphs [0036]-[0037], claim 1 and figure 4.	1-21
A	US 2009-0031336 A1 (TIMOTHY R. CHAVEZ et al.) 29 January 2009 See abstract, paragraph [0021], claim 1 and figure 3.	1-21
A	US 2007-0299778 A1 (RYAN A. HAVESON et al.) 27 December 2007 See abstract, claim 1 and figure 3.	1-21

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
27 September 2013 (27.09.2013)	**30 September 2013 (30.09.2013)**

Name and mailing address of the ISA/KR	Authorized officer
Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. +82-42-472-7140	KIM Sung Gon Telephone No. +82-42-481-8746

Form PCT/ISA/210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/US2013/046386

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 7483958 B1	27/01/2009	None	
US 2010-0228740 A1	09/09/2010	None	
US 2012-0129446 A1	24/05/2012	AT 520238 T	15/08/2011
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		HK 1122664 A1	18/11/2011
		JP 2009-521185 A	28/05/2009
		JP 2012-235471 A	29/11/2012
		US 2007-169115 A1	19/07/2007
		US 2010-049835 A1	25/02/2010
		US 2013-080599 A1	28/03/2013
		US 7702279 B2	20/04/2010
		US 8112032 B2	07/02/2012
		US 8315555 B2	20/11/2012
		WO 2007-075376 A1	05/07/2007
US 2009-0031336 A1	29/01/2009	None	
US 2007-0299778 A1	27/12/2007	None	

Form PCT/ISA/210 (patent family annex) (July 2009)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 13-0410-PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. **PCT/US2013/046372**	International filing date *(day/month/year)* **18 June 2013 (18.06.2013)**	(Earliest) Priority Date *(day/month/year)* 26 June 2012 (26.06.2012)
Applicant **SONOS, INC.**		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
   a. With regard to the **language**, the international search was carried out on the basis of:
      ☒ the international application in the language in which it was filed
      ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
   b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).
   c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.
2. ☐ **Certain claims were found unsearchable** (See Box No. II)
3. ☐ **Unity of invention is lacking** (See Box No. III)
4. With regard to the **title**,
   ☒ the text is approved as submitted by the applicant.
   ☐ the text has been established by this Authority to read as follows:
5. With regard to the **abstract**,
   ☒ the text is approved as submitted by the applicant.
   ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. With regard to the **drawings**,
   a. the figure of the drawings to be published with the abstract is Figure No. 7
      ☐ as suggested by the applicant.
      ☒ as selected by this Authority, because the applicant failed to suggest a figure.
      ☐ as selected by this Authority, because this figure better characterizes the invention.
   b. ☐ none of the figure is to be published with the abstract.

Form PCT/ISA/210 (first sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/046372

A. CLASSIFICATION OF SUBJECT MATTER

G06F 15/16(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G06F 15/16; G09B 5/00; G06F 17/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: media playback, link, queueplaylist, credentialauthorizeauthenticate

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007-0048713 A1 (DANIEL PLASTINA et al.) 01 March 2007 See paragraph 8 - paragraph 48; paragraph 73 - paragraph 156;and figures 1-23.	1,4-11,14-20
A		2-3,12-13
A	US 2012-0030366 A1 (COLLART TODD et al.) 02 February 2012 See paragraph 5 - paragraph 35; paragraph 67 - paragraph 107; paragraph 115 - paragraph 163; and figures 1-7,11-19.	1-20
A	US 2006-0143236 A1 (MICHAEL WU) 29 June 2006 See paragraph 14 - paragraph 42; and figures 1-4.	1-20
A	US 2008-0091771 A1 (JEFFREY L. ALLEN et al.) 17 April 2008 See paragraph 28 - paragraph 48; claim 1 and figures 3-6.	1-20

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
23 August 2013 (23.08.2013)	**26 August 2013 (26.08.2013)**

Name and mailing address of the ISA/KR	Authorized officer
Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. +82-42-472-7140	PARK Sang Hyun Telephone No. +82-42-481-8263

Form PCT/ISA/210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/US2013/046372

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007-0048713 A1	01/03/2007	CN101243426 A	13/08/2008
		CN101243426 C0	13/08/2008
		KR 10-2008-0033399 A	16/04/2008
		US 2007-0048712 A1	01/03/2007
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		US 7831605 B2	09/11/2010
		US 8140601 B2	20/03/2012
		WO 2007-021831 A1	22/02/2007
US 2012-0030366 A1	02/02/2012	AU 2008-335095 A1	18/06/2009
		AU 2008-335095 B2	28/03/2013
		CA 2708778 A1	18/06/2009
		EP 2232365 A2	29/09/2010
		EP 2232365 A4	31/07/2013
		JP 2011-520302 A	14/07/2011
		US 2009-150553 A1	11/06/2009
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		EP 2089881 A4	16/01/2013
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		KR 10-2009-0079885 A	22/07/2009
		MX 2009002806 A	31/03/2009
		WO 2008-048761 A1	24/04/2008

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
GEORGE CHRISTOPHER N.

HANLEY, FLIGHT & ZIMMERMAN, LLC 150 S.
WACKER DRIVE SUITE 2100 CHICAGO IL 60606 USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)*	**26 August 2013 (26.08.2013)**
Applicant's or agent's file reference 13-0410-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/046372	**18 June 2013 (18.06.2013)**	26 June 2012 (26.06.2012)

International Patent Classification (IPC) or both national classification and IPC

G06F 15/16(2006.01)i

Applicant
SONOS, INC.

1. This opinion contains indications relating to the following items:

- [x] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [x] Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. +82-42-472-7140	23 August 2013 (23.08.2013)	PARK, Sang Hyun Telephone No. +82-42-481-8263

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/046372

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

   a. a sequence listing filed or furnished
      ☐ on paper
      ☐ in electronic form

   b. time of filing or furnishing
      ☐ contained in the international application as filed.
      ☐ filed together with the international application in electronic form.
      ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/046372

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	2-3,12-13	YES
	Claims	1,4-11,14-20	NO
Inventive step (IS)	Claims	2-3,12-13	YES
	Claims	1,4-11,14-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations :

(1) Reference is made to the following documents:

D1: US 2007-0048713 A1 (DANIEL PLASTINA et al.) 01 March 2007
D2: US 2012-0030366 A1 (COLLART TODD et al.) 02 February 2012
D3: US 2006-0143236 A1 (MICHAEL WU) 29 June 2006
D4: US 2008-0091771 A1 (JEFFREY L. ALLEN et al.) 17 April 2008

(2) Novelty & Inventive Steps

Concerning claims 1-10:
Claims 1,4-10
D1 discloses a community media playlist sharing system, wherein system users can upload media playlists which are automatically converted to a standardized format, media playlists can be shared with other users of the community media playlist sharing system, users can link to other playlists and obtain media from playlists automatically from third party points of purchase, users can provide recommendations, ratings and rankings relative to other playlists by system users and receive recommendations from other users and an editorial staff, participate in social networking functions including forums, discussions, weblogs, playlist topic groups and inter-user communications based on affinity for similar playlists, create playlists manually, automatically, or in real time, and wherein system users can obtain points for participation and popularity in the system and obtain profit by meta-affiliate sharing of profit for purchases of music made through playlists submitted by that user as well as through playlist toolbars distributed to third party websites.[paragraph 73 - paragraph 156, and figures 1-23] As all of the features of claims 1,4-10 are disclosed in D1, these claims are anticipated in D1. Therefore, claims 1,4-10 lack novelty under PCT Article 33(2) and are not considered as involving an inventive step under PCT Article 33(3).
Claims 2-3:
The subject matter of claims 2-3 is different from that of D1 in a guest mode. And it is

Continued on Supplemental Box

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of: Box No. V

not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claims 2-3 are novel and involve an inventive step under PCT Article 33(2) and (3).

Concerning claims 11-20:
Claims 11,14-20:
D1 discloses a community media playlist sharing system, wherein system users can upload media playlists which are automatically converted to a standardized format, media playlists can be shared with other users of the community media playlist sharing system, users can link to other playlists and obtain media from playlists automatically from third party points of purchase, users can provide recommendations, ratings and rankings relative to other playlists by system users and receive recommendations from other users and an editorial staff, participate in social networking functions including forums, discussions, weblogs, playlist topic groups and inter-user communications based on affinity for similar playlists, create playlists manually, automatically, or in real time, and wherein system users can obtain points for participation and popularity in the system and obtain profit by meta-affiliate sharing of profit for purchases of music made through playlists submitted by that user as well as through playlist toolbars distributed to third party websites.[paragraph 73 - paragraph 156, and figures 1-23] As all of the features of claims 11,14-20 are disclosed in D1, these claims are anticipated in D1. Therefore, claims 11,14-20 lack novelty under PCT Article 33(2) and are not considered as involving an inventive step under PCT Article 33(3).
Claims 12-13:
The subject matter of claims 12-13 is different from that of D1 in a guest mode. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claims 12-13 are novel and involve an inventive step under PCT Article 33(2) and (3).

(3) Industrial Applicability

The subject matter of claims 1-20 is believed to be industrially applicable under PCT Article 33(4) because the claimed invention can be used in the computer industry.

PATENT COOPERATION TREATY

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:

HANLEY, FLIGHT & ZIMMERMAN, LLC
150 South Wacker, Suite 2100
Chicago, Illinois 60606
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 17 October 2013 (17.10.2013)	
Applicant's or agent's file reference 11-0401PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/IB2012/052071	26 April 2012 (26.04.2012)	08 April 2011 (08.04.2011)

Applicant
SONOS, INC. et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Cécile Chatel
Facsimile No. +41 22 338 82 70	e-mail: ro.ib@wipo.int

Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 11-0401PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/IB2012/052071	International filing date *(day/month/year)* 26 April 2012 (26.04.2012)	Priority date *(day/month/year)* 08 April 2011 (08.04.2011)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant SONOS, INC.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 6 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 08 October 2013 (08.10.2013)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Cécile Chatel e-mail: ro.ib@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/IB2012/052071	26.04.2012	08.04.2011

International Patent Classification (IPC) or both national classification and IPC
INV. H04R27/00 H04S7/00

Applicant
SONOS, INC.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:	Date of completion of this opinion	Authorized Officer
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Fax: +49 89 2399 - 4465	see form PCT/ISA/210	Meiser, Jürgen Telephone No. +49 89 2399-0

Form PCT/ISA/237 (Cover Sheet) (July 2009)

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	
	No:	Claims	1-29
Inventive step (IS)	Yes:	Claims	
	No:	Claims	1-29
Industrial applicability (IA)	Yes:	Claims	1-29
	No:	Claims	

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Reference is made to the following documents:

D1 US 2002/124097 A1 (ISELY LARSON J [US] ET AL) 5 September 2002 (2002-09-05)

D2 US 7 571 014 B1 (LAMBOURNE ROBERT A [US] ET AL) 4 August 2009 (2009-08-04)

2 The present application does not meet the criteria of Article 33(2) PCT, because the subject-matter of **claims 1 and 18** is not new.

2.1 With respect to **claim 1**, document **D1** discloses an apparatus for providing audio in a multi-channel listening environment (cf. figures 1 and 4), the apparatus comprising:
- a network interface to facilitate communication on a network, wherein the network interface receives audio data over the network (cf. figure 1; page 4, paragraphs [35] - [39]);
- a plurality of speaker drivers (cf. figures 1 and 2, "networked audio device105"; page 4, paragraphs [37]-[42]);
- an amplifier for powering the plurality of speaker drivers (cf. figures 1 and 2); and
- a processor for processing the audio data to be output through the plurality of speaker drivers and further for configuring a first equalization of the output from the plurality of speaker drivers in accordance with a first type of pairing and configuring a second equalization of the output from the plurality of speaker drivers in accordance with a second type of pairing (cf. figures 2-4 and 7; page 4, paragraphs [43] and [44]; page 5, paragraphs [48]-[50]; page 7, paragraphs [65]-[70]).

2.2 Document **D2** also discloses all the features of **claim 1** in combination.

In detail, **D2** discloses an apparatus for providing audio in a multi-channel listening environment (cf. figure 1), the apparatus comprising:
- a network interface to facilitate communication on a network, wherein the network interface receives audio data over the network (cf. figures 1-2A; column 4, line 11 - column 6, line 62);
- a plurality of speaker drivers (cf. figure 1-2A; column 6, lines 18 - column 7, line 22);
- an amplifier for powering the plurality of speaker drivers (cf. figure 2A;

column 6, lines 18 - column 7, line 22); and
- a processor for processing the audio data to be output through the plurality of speaker drivers and further for configuring a first equalization of the output from the plurality of speaker drivers in accordance with a first type of pairing and configuring a second equalization of the output from the plurality of speaker drivers in accordance with a second type of pairing (cf. figures 1-2A, 3A and 7A-7D; column 4, lines 11-27; column 9, line 24 - column 10, line 36; column 14, lines 6-29).

2.3 **Method claim 18** corresponds closely to the independent apparatus claim 1 in that it defines a respective method step for each structural feature of claim 1. Such a method is also not novel with regard to each of the documents **D1** (cf. claims 25-40) and **D2** (cf. claims 1-24).

3 **Dependent claims 2-17 and 19-29** do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and inventive step:

claims 2-6, 19-23: cf. D1, figures 2-4 and 7; page 4, paragraphs [43] and [44]; page 5, paragraphs [48]-[50]; page 7, paragraphs [65]-[70]; D2, figures 1-2A, 3A and 7A-7D; column 4, lines 11-27; column 9, line 24 - column 10, line 36; column 14, lines 6-29; the option of pairing with a playback device and the allocation of audio channels is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill;

claims 10, 11, 14, 26 and 27: cf. D1, page 2, paragraphs [17] and [18]; page 4, paragraphs [39] - [42]; claims 1, 6 and 7; D2, figures 2B and 2C; column 7, lines 23-49; column 8, line 19 - column 9, line 6;

claim 13: cf. D2, column 5, lines 14-21;

claim 7-9, 16-17, 24-25 and 28-29: the audio content in the different zones can be reproduced via different modes and the audio data is separated into different audio channels; cf. D1, page 1, paragraph [5]; page 4, paragraphs [37]-[39];

claim 12: the use of a button in order to choose the channel of the playback device is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill;

claim 15: cf. D2, column 2, line 17 - column 3, line 38.

4 The application does not meet the requirements of Article 6 PCT, because **claims 1, 4, 8, 11, 21 and 24** are not clear.

4.1 The passages "...for configuring a first equalization...", "...in accordance with a first type of pairing", "...configuring a second equalization..." and "...in accordance with a second type of pairing" in **claim 1** are not clear.

4.2 **Claims 4 and 21** refers to a second playback device whereas there is no "first" playback device.

4.3 **Claims 8, 11 and 24** refer to a "consolidated mode" which mode is not defined.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:

GEORGE, Christopher N.
Hanley, Flight & Zimmerman, LLC.
150 S. Wacker Drive, Suite 2100
Chicago, Illinois 60606
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 30 January 2014 (30.01.2014)		
Applicant's or agent's file reference 11-0501-PCT	**IMPORTANT NOTICE**	
International application No. PCT/US2012/045894	International filing date *(day/month/year)* 09 July 2012 (09.07.2012)	Priority date *(day/month/year)* 19 July 2011 (19.07.2011)
Applicant SONOS, INC. et al		

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Kihwan Moon
Facsimile No. +41 22 338 82 70	e-mail: pt01.pct@wipo.int

Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 11-0501-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2012/045894	International filing date *(day/month/year)* 09 July 2012 (09.07.2012)	Priority date *(day/month/year)* 19 July 2011 (19.07.2011)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant SONOS, INC.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 21 January 2014 (21.01.2014)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Kihwan Moon e-mail: pt01.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
GEORGE CHRISTOPHER N.

HANLEY, FLIGHT & ZIMMERMAN, LLC. 150 S.
WACKER DRIVE, SUITE 2100 CHICAGO IL 60606 USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)*	**26 DECEMBER 2012 (26.12.2012)**
Applicant's or agent's file reference 11-0501-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2012/045894	**09 JULY 2012 (09.07.2012)**	19 JULY 2011 (19.07.2011)

International Patent Classification (IPC) or both national classification and IPC

H04R 3/00(2006.01)i, H04R 5/02(2006.01)i, H04S 5/02(2006.01)i

Applicant

SONOS, INC. et al

1. This opinion contains indications relating to the following items:

- [x] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [x] Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. 82-42-472-7140	26 DECEMBER 2012 (26.12.2012)	JEONG, So Yeon Telephone No.82-42-481-5656

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2012/045894

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into _____ , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

   a. a sequence listing filed or furnished
      ☐ on paper
      ☐ in electronic form

   b. time of filing or furnishing
      ☐ contained in the international application as filed.
      ☐ filed together with the international application in electronic form.
      ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2012/045894

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-30	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-30	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1-30	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 2008-0144864 A1 (GRAEME JOHN HUON) 19 June 2008
D2: US 05553147 A (JOSEPH E.M. PINEAU) 03 September 1996
D3: US 2007-0003067 A1 (STEFAN GIERL et al.) 04 January 2007
D4: US 2002-0124097 A1 (LARSON J. ISELY et al.) 05 September 2002

1. Novelty and Inventive Step

1.1 Concerning Claims 1-10

The subject matter of claim 1 differs from these prior art documents in that a method for shaping sound comprises configuring the playback device to reproduce a stereophonic or monaural sound using a plurality of speakers based on an orientation and an audio data stream. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claim 1 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Claims 2-10 are dependent on claim 1 and therefore meet the requirements of PCT Article 33(2) and (3).

1.2 Concerning Claims 11-20

The subject matter of claim 11 differs from these prior art documents in that a tangible computer readable storage medium including a set of instructions for execution by processor when executed implement a method for shaping sound comprises a playback device reproduces a stereophonic or monaural sound using a plurality of speakers based on an orientation and an audio data stream. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claim 11 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Claims 12-20 are dependent on claim 11 and therefore meet the requirements of PCT Article 33(2) and (3).

Continued on Supplemental Box

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of :

Box V

1.3 Concerning Claims 21-30

Since the apparatus and the method of claims 21 and 1 are substantially same except the category aspect, claim 21 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Claims 22-30 are dependent on claim 21 and therefore meet the requirements of PCT Article 33(2) and (3).

2. Industrial Applicability

Claims 1-30 are industrially applicable under PCT Article 33(4).

Electronic Acknowledgement Receipt

EFS ID:	37824787
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:51:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	AUDIOTRONSETUPGUIDE_V2.pdf	11297159 9b29308bcec2143809f7700841126c88fde3def5	no	38

Warnings:

Information:					
2	Non Patent Literature	PRISMIQ_MediaPlayer_MANUAL-V2.pdf	226503 82be6353c05605e69be4f8a19c73ed1e569abe4c	no	44
Warnings:					
Information:					
3	Non Patent Literature	MOTOROLA_2001-v2.pdf	9111149 802a59cc70cb70a70dbe858a7f49abfdf61ea3e0	no	111
Warnings:					
Information:					
4	Non Patent Literature	YAMAHA_DME-32_OWNERSMANUAL_V2.PDF	22148121 d6588fedfcb1f9091671e1d405d80752ff5cc38b	no	296
Warnings:					
Information:					
5	Non Patent Literature	POLYCOM_CONFERENCECOMPOSERUSERGUIDE_V2.PDF	2282647 044ce23e2f1e1f122fbc11e757216adbe1a3f650	no	29
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Information:					
6	Non Patent Literature	13298090_FOA_7-3-12_46pages.pdf	1761958 4587543944d15fb1e54d856fb334bce3086a9ca7	no	46
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Information:					
7	Non Patent Literature	13298090_NOA_01-31-2013.pdf	769162 1ceeed30776a8dbc2debd64c5ba23efcf1045218	no	19
Warnings:					
Information:					
8	Non Patent Literature	13297000_FOA_9-13-12_17pages.PDF	1142506 d9924a01e2f3719c43d7039fa430d7a10df7f43c	no	17
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Information:					

9	Non Patent Literature	13204511_NOA_MAILED_10-5-12-v2.PDF	489952 c984b4c78f388bfc386df29d5e3b64e9ba2d867f	no	11
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Information:					
10	Non Patent Literature	13204511_NON-FINAL_MAILED-4-30-12-V2.PDF	625136 57f461f72af5f9e391a5b6095ef95146ef351988	no	16
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Information:					
11	Non Patent Literature	PCTUS2012045894_ISR_12-26-12.pdf	94148 1b81a8f19df487d09e193d7b87d8badc0f7f6a52	no	3
Warnings:					
Information:					
12	Non Patent Literature	PCTUS2012045894_WO_12-26-12.pdf	99988 b7a29f654e3f813d6d525b45740c4010bb46c87e	no	4
Warnings:					
Information:					
13	Non Patent Literature	PCTIB2012052071_ISR_08-23-2012_3pages-v2.pdf	80174 b58aca46857296937e5e99120a49300380173e6a	no	3
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Information:					
14	Non Patent Literature	PCTIB2012052071_WO_08-23-2012_6pages.pdf	203053 c5e055ca50d3cbe365a9930b192cc41110c66e94	no	6
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Information:					
15	Non Patent Literature	UPNP_2000-54pages.pdf	3033113 676c892f753f51c42239f3711d2eeaafba55843d	no	54
Warnings:					
Information:					

16	Non Patent Literature	11853790_FOA_10-13-11_10pages-v2.pdf	341364 6d6a7869925749258137bdab868eb3934f2671a3	no	10
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Information:					
17	Non Patent Literature	11853790_NFOA_3-8-2011_10pages.pdf	338309 4586dcb4ea419adafc2ccbfdbdc97b827fb4612f	no	10
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Information:					
18	Non Patent Literature	11853790_AA_12-22-11_2pages.PDF	128149 216c784323f2e47fd3b2a60d02605c610e07f4e2	no	2
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Information:					
19	Non Patent Literature	11853790_Notice_of_Allowability_4-18-13_4pages.PDF	140505 8a65b11b6eeae5ea638e857dd9cfe3448fb9f6a4	no	4
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Information:					
20	Non Patent Literature	13619237_Non-Final_OA_4-10-13.pdf	329715 a6fa9785976231f2d94c17bd56ae0a9f556a7175	no	10
Warnings:					
Information:					
21	Non Patent Literature	ID3_TAG_VERSION_2_1998-v2.pdf	1104509 16a484c95eaa34d72c11f0be24c6785558b992d3	no	28
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Information:					
22	Non Patent Literature	13619237_NOA_09-06-2013.pdf	477765 b0c09c98a125cfcbb78ad2cc0408cdcb3addde8c2	no	10
Warnings:					
Information:					

23	Non Patent Literature	PCTUS2013046386-WRITTEN_OPINION_09-30-2013_V2.PDF	232176 7587dabb5ed76d0c2f5bf6c754d4b4813788a6c1	no	6
Warnings:					
Information:					
24	Non Patent Literature	PCTUS2013046386_ISR_09-30-2013_V2.PDF	128182 c6f72734ee8a1a36ff8e4c9a1ba8a2c1bea74ef0	no	3
Warnings:					
Information:					
25	Non Patent Literature	13533105_NFOA_12-0402_11-25-13_19pages-v2.pdf	558958 d5a12561a03addd95585c5663ba4920560d8b5ec	no	19
Warnings:					
Information:					
26	Non Patent Literature	PCTUS2013046372_ISR_8-26-13_3pages_V2.PDF	128104 0769238d2762e920b9ee249390eda2ad4b808e63	no	3
Warnings:					
Information:					
27	Non Patent Literature	PCTUS2013046372_Written_Opinion_8-26-13_4pages-v2.pdf	165836 f2b5bb1025b1d673c414b2acaf395d35cd76466c	no	4
Warnings:					
Information:					
28	Non Patent Literature	PCTIB2012052071_IPRP_10-17-13.PDF	261032 ba0f548a4271cf21d1b2fb9bed234ecce01423d7	no	7
Warnings:					
Information:					
29	Non Patent Literature	13013740_FOA_02-10-14_13pages.pdf	426554 b4c9623809fddd4c5b76e052fe8df0272d0bd98d	no	13
Warnings:					
Information:					

30	Non Patent Literature	13013740_NON-FINAL_OA_09-27-13.PDF	401880 1a969ef461d491a5c660869ef736f6d774e2efa3	no	12
Warnings:					
Information:					
31	Non Patent Literature	13827653_NON-FINAL_OA_12-05-2013-v2.pdf	956104 1d2bbdb062a5fc943111c6c7d5749568a8e79b0e	no	28
Warnings:					
Information:					
32	Non Patent Literature	13827653_NOA_3-6-14-v2.PDF	774900 9e59c30319130c8a953bda507e869775a2b97d51	no	17
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33	Non Patent Literature	Blakowski_1996.pdf	2310647 226342aece1f214bdefb9b4b5dce0891c63b7159	no	32
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34	Non Patent Literature	EUROPEAN_NO_13184747-7_EXTENDED_SEARCH_REPORT_02-28-14-v2.pdf	275453 48d797771408dba3d73f798cea3e9f65107b2407	no	8
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35	Non Patent Literature	13083499AppFiled.pdf	2145147 cffbda930aa46b3683228b7933f24ecd115de97d	no	69
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36	Non Patent Literature	Maniactools_2010.pdf	287375 61babf16b81c514a1120bfd0913483a1794523f8	no	2
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37	Non Patent Literature	13724048_NON-FINAL_OA-03-19-13_9pages-v2.pdf	309885 17d27ebf2d9b60269af7d82a5e7c23827e0d1f50	no	9
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40	Non Patent Literature	ROLAND_Announces_BA-55_System_2011-2pages-v2.pdf	79061 ef1329059c0485858454518ac822db84467f8de2	no	2
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41	Non Patent Literature	Horwitz_Ref_2013.pdf	1041654 4c8854b087257eb517c846c07539d1e9f510ad24	no	5
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42	Non Patent Literature	PCTIB2012045894_IPRP_01_30_2014.PDF	203266 7f11126a42ea767ff6a1811b6b35feb0afa162ef	no	6
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Information:					
43	Non Patent Literature	13533105_FOA_12-0402_3-27-14_29pages.PDF	947656 caef56f4dd42c85fca3a066e6efb14c8511d0d3e	no	29
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44	Non Patent Literature	Rane_2006.pdf	1436965 51ab0874165272f06bfaf1050dd05893238e9d81	no	8
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45	Non Patent Literature	YAMAHA_DME-2004-482PAGES_V2.pdf	5201188 e8cb93aaf142da15a5410398d7c5719843d522a6	no	482
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46	Non Patent Literature	13083499_NFOA_2-10-14_12pages-v2.pdf	408439 0336073161fad607df0795ab11122dfdcdb21047	no	12
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47	Non Patent Literature	14184522_NON-FINAL_OA_05-01-14-v2.pdf	1041799 6179e91dece9bbdcd9a64a1543662f6ebe53441a	no	31
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49	Non Patent Literature	13705176_NON-FINAL_OA_05-06-2014-v2.pdf	826908 6984986c17ba20fa8198ebdf579d6371ca707a24	no	23
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50	Non Patent Literature	13848932_NON-FINAL_OA_05-14-2014-v2.pdf	462213 0ff3c3071481d1b115841e69f87896c3d3e22ebd	no	14
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53	Non Patent Literature	13083499_NOA_06-02-14_5pages.PDF	355318 7d7fe718726c62fe3ae6060a4981129482e556d5	no	5
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54	Non Patent Literature	13298090_Non-Final_OA_01-05-12.pdf	1401752 5401dd4b7d75aa6308908e34179cab7252ea3a73	no	40
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56	Non Patent Literature	13896829_NOA_6-12-14.PDF	357631 ca4c63d3e740970d84a50357b5a4b158692f9770	no	5
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57	Non Patent Literature	13896829_NFOA_1-7-14_11pages-v2.pdf	364466 2df2af01672cd2b4e63219afbce7f469a98fa097	no	11
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58	Non Patent Literature	14176808_NON-FINAL_OA_06-17-2014-v2.pdf	230380 08e84dbb7dd3540b713389a059415044e57c4e7b	no	6
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60	Non Patent Literature	11801468_NON-FINAL_OA_04-19-2010-v2.pdf	656828 b909d4ac147ef11ca626cc53cea34740652c2e3b	no	16
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Information:					
		Total Files Size (in bytes):	84237061		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/23102

A. CLASSIFICATION OF SUBJECT MATTER
IPC: **G06F 15/16**(2006.01)

USPC: 709/205,208,209
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 709/205,208,209

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JO et al. 'Synchronized One-to-Many Media Streaming with Adaptive Playout Control.' In: Proceedings of SPIE, Vol. 4861. Edited by Tescher et al. SPIE, December 2002 (12.2002), pp. 71-82. abstract, sections 1-5, all subsections, all figures.	1-64, 109-172
Y	MILLS, David L. 'Network Time Protocol Specification, Implementation and Analysis.' Request for Comments: 1305. Network Working Group, March 1992 (03.2003). pgs ii-iii; pp 5, paragraph 2; pp 14-15, section 3.2.5; pp 24-27, section 3.4.4;	1-64, 109-172
Y	US 2003/0099212 A1 (ANJUM et al) 29 May 2003 (29.05.2003) abstract, [0003]-[0010], [0025]-[0036], All Figures	5-25, 33, 37-45, 50-64, 113-133, 141, 145-153, 158-172

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
09 June 2008 (09.06.2008)	01 AUG 2008
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer Andrew Caldwell Telephone No. 571-272-2100

Form PCT/ISA/210 (second sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/23102

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2001/0032188 A1 (MIYABE et al) 18 October 2001 (18.10.2001) abstract, [0120]-[0134]	21-25, 41-45, 60-64, 129-133, 149-153, 168-172
Y	US 7,312,785 B2 (TSUK et al) 25 December 2007 (25.12.2007) abstract; col 3, lines 35-54; col 13, lines 32-47; col 15, line 63 - col 16, line 12; Figure 7B	6-8, 37-40, 50-59, 114-116, 145-149, 158-167
Y	US 2004/0203378 A1 (POWERS) 14 October 2004 (14.10.2004) abstract	19, 127
A	ISHIBASHI et al. 'A Group Synchronization Mechanism for Live Media in Multicast Communications.' In: IEEE GLOBECOM. November 1997 (11.1997). pp 746-752.	1-64, 109-172
A	HUANG et al. 'A Synchronization Infrastructure for Multicast Multimedia at the Presentation Layer.' In: IEEE Transactions on Comsumer Electronics, Vol. 43, No. 3. August 1997 (08.1997). pp 370-380.	1-64, 109-172

Form PCT/ISA/210 (continuation of second sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/23102

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-64 and 109-172

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2007)

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING
This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-64 and 109-172, drawn to a system and method with task source and playback devices.

Group II, claim(s) 65-91, 173-200, and 218-245, drawn to a system, method, and program for a task playback device.

Group III, claim(s) 92-108, 201-217, and 246-262, drawn to a system, method, and program for a task source device.

Group IV, claim(s) 263-266, drawn to a system with task source, playback, and control devices.

Group V, claim(s) 267-335, 382-448, drawn to a system and method for task source and playback devices, specific to audio task characteristics.

Group VI, claim(s) 336-364, 449-478, 499-548, drawn to a system, method, and program for task playback devices, specific to audio task characteristics.

Group VII, claim(s) 365-381, 479-498, 529-548, drawn to a system, method, and program for task source devices, specific to audio task characteristics.

The inventions listed as Groups II-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Group II: Though this group contains equivalent independent claims, the technical features of these independent claims are known in the art (See Jo and Mills), thus there is lack of unity *a posteriori*, as the dependent claims of this group recite technical features unique to task playback device operation.

Group III: Though this group contains equivalent independent claims, the technical features of these independent claims are known in the art (See Jo and Mills), thus there is lack of unity *a posteriori*, as the dependent claims of this group recite technical features unique to task source device operation.

Group IV: This group contains a special technical feature (control devices) that is different than group I and thus there is a lack of unity *a priori*.

Group V: Though this group contains analogous independent claims, the technical features of these independent claims are known in the art (See Jo and Mills), thus there is lack of unity *a posteriori*, as the dependent claims of this group recite technical features unique to audio task characteristics.

Group VI: Though this group contains analogous independent claims, the technical features of these independent claims are known in the art (See Jo and Mills), thus there is lack of unity *a posteriori*, as the dependent claims of this group recite technical features unique to audio task playback device operation.

Group VII: Though this group contains analogous independent claims, the technical features of these independent claims are known in the art (See Jo and Mills), thus there is lack of unity *a posteriori*, as the dependent claims of this group recite technical features unique to audio task source device operation.

Continuation of B. FIELDS SEARCHED Item 3:
US-PAT, US-PGPUB, EPO, JPO, DERWENT, IBM TDB, INTERNET NPL
ntp, inter-client synchronization, adaptive playback, mpeg2, presentation time stamp, bluetooth migration, bluetooth master slave, ipod scroll wheel

Electronic Acknowledgement Receipt	
EFS ID:	37824571
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	22-NOV-2019
Filing Date:	
Time Stamp:	11:50:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	WO2014004182.pdf	2037255 300230e07c41979daf09d809d507a13c449515a8	no	49
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Information:					
2	Foreign Reference	JP2009535708.pdf	1158271 a225780e8ab7472c0ae89ca2c32fd69881f5cea9	no	26
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31	Non Patent Literature	14808397_Notice_of_Allowance_07-0901-CON0415_6-1-17-5pages.pdf	354302 f6f7d308983111a088ee02b67a11483de356f63d	no	5
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40	Non Patent Literature	JO_ProceedingsSPIE_2002_4861_71.pdf	623348 7456c250e9a0d9d14bdab77ee04ae019146d379f	no	11
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41	Non Patent Literature	MILLS_NETWORKTIMEPROTOCOL_1992-v2.pdf	20484 aa3f9676a0a4633642aff8fcea935b1e297a522d	no	7
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42	Non Patent Literature	MILLS_ACMSIGCOMM_CompCommReview_1994_24_28.pdf	259733 8125058f649863b2ee78e95e79519f8cd1a8012d	no	16
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44	Non Patent Literature	ROTHERMEL_AdaptiveStreamSyncProtocol_1995.pdf	196987 92a695bed4cd699cedf0997a8280f81a7a367e4f	no	13
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45	Non Patent Literature	10816217_Non-Final_OA_01-18-2008-v2.pdf	1135054 29609af1be86928dd60bbf2a7077f9cef802c25e	no	38
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Warnings:					
Information:					
50	Non Patent Literature	FOA_10816217_28Jan2011.pdf	672467 ec4c52e1b9df5768fe4ac30967bf4c8aaff17b3d	no	21
Warnings:					
Information:					

51	Non Patent Literature	10816217_NFOA_6-25-2010_17pages-v2.pdf	539884 11a32763a872aebc3e52dab896719599a8237772	no	17
Warnings:					
Information:					
52	Non Patent Literature	FOA_10816217_13Jul2009.pdf	495151 070492f839b9fd06357c5440ca1a3e2b024ae824	no	16
Warnings:					
Information:					
53	Non Patent Literature	10816217_NFOA_04-0401_1-22-2009_18pages-v2.pdf	577860 69cbc57ea750aa7fb76dfc1f90a3cb171fc057ef	no	18
Warnings:					
Information:					
54	Non Patent Literature	10816217_FOA_06-30-2008_30pages.pdf	838560 874f0d2d4a961f7d3c402b596a93ea75aaf7214a	no	30
Warnings:					
Information:					
55	Non Patent Literature	13297000_NFOA_11-0901_2-29-12_10pages-v2.pdf	308631 09c8736c6a7e8685da16ec4ac67f762e6d0aa29e	no	10
Warnings:					
Information:					
56	Non Patent Literature	11906702_NOA_11-10-11_17pages.PDF	716483 c9908e499aef5fde32d9bac7e6068d36f04cbd7c	no	17
Warnings:					
Information:					
57	Non Patent Literature	11906702_NF_OA_8-20-09-V2.PDF	922375 63947f5563ce0880da2ded772864428097866d8ea	no	27
Warnings:					
Information:					

58	Non Patent Literature	11906702_FOA_01-21-2010.pdf	962767 1fbea73221e6b7e15176d6edd956ce73b6e177c1	no	27
Warnings:					
Information:					
59	Non Patent Literature	AUDIOTRONQUICKSTARTGUIDE_V2.pdf	8003306 68d18f702aa02a5d9705c13ea29cbf74d0ef40ca	no	24
Warnings:					
Information:					
60	Non Patent Literature	AUDIOTRONREFERENCEMANUAL_V2.PDF	13501686 0a1073485e8dcd1da2d5986a3ccb6c2df69c28d7	no	70
Warnings:					
Information:					
		Total Files Size (in bytes):	148110445		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (04-14)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	Kallai, Christopher	Nonprovisional Application Number (if known):	
Title of Invention:	Playback Device Pairing		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

I. ☑ **Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, **or** the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ **Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Jeffrey P. Armstrong/	Date October 31, 2019
Name (Print/Typed) Jeffrey P. Armstrong	Practitioner Registration Number 54,967

Note: *This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.**

☐ *Total of _____ forms are submitted.

PTO/AIA/80 (07-12)
Approved for use through 11/30/2014. OMB 0651-0035
U.S. Patent and Trademark Office: U.S DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

■ Practitioners associated with Customer Number: 107361

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

■ The address associated with Customer Number: 107361

OR

☐	Firm or Individual Name		
	Address		
	City	State	Zip
	Country		
	Telephone	Email	

Assignee Name and Address: Sonos, Inc, 223 E. De La Guerra St.
Santa Barbara, CA 93101

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	[signature]	Date	10/2/2012
Name	Mark Triplett	Telephone	(805) 965-3001
Title	Director, IP		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal	
Application Number:	
Filing Date:	
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Filer:	Jeffrey Armstrong
Attorney Docket Number:	11-0401-CON1019A

Filed as Large Entity

Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
REQUEST FOR PRIORITIZED EXAMINATION	1817	1	4000	4000
Pages:				
Claims:				
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**5860**

Electronic Acknowledgement Receipt	
EFS ID:	37620643
Application Number:	16670109
International Application Number:	
Confirmation Number:	7387
Title of Invention:	Playback Device Pairing
First Named Inventor/Applicant Name:	Christopher Kallai
Customer Number:	107361
Filer:	Jeffrey Armstrong
Filer Authorized By:	
Attorney Docket Number:	11-0401-CON1019A
Receipt Date:	31-OCT-2019
Filing Date:	
Time Stamp:	14:36:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$5860
RAM confirmation Number	E20190UE37205698
Deposit Account	132490
Authorized User	Jeffrey Armstrong
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	11-0401-CON1019A_ADS.pdf	120010 6c3b6d690e75ab0ec408e46d8191f2042a72508e	no	8
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2		11-0401-CON1019A_Application.pdf	3097217 265d78b867ef4409d5703b2489f2565d89773c3f	yes	68

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Specification	1	40
Claims	41	46
Abstract	47	47
Drawings-only black and white line drawings	48	68

Warnings:					
Information:					
3	Oath or Declaration filed	11-0401-CON1019A_Declarations.pdf	6798982 8bb07bf9f155876449342e0793bdf96d169cff80	no	5
Warnings:					
Information:					
4	TrackOne Request	11-0401-CON1019A_TrackOne_Request.pdf	118277 87a90d968283155a32a452fa26bf9e923552ef12	no	1
Warnings:					
Information:					

5	Power of Attorney	POA.pdf	1392078 d98882553c137a2b189e6fb7af3dd43b39e58ab0	no	1
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	40555 d348a04f761c800841120c6d359af9dea1c60f67	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	11567119	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	11-0401-CON1019A /15-1432
	Application Number	
Title of Invention	Playback Device Pairing	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Christopher		Kallai	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Santa Barbara	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	614 Chapala Street		
Address 2			
City	Santa Barbara	State/Province	CA
Postal Code	93101	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Michael	Darrell Andrew	Ericson	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Santa Barbara	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	614 Chapala Street		
Address 2			
City	Santa Barbara	State/Province	CA
Postal Code	93101	Country	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Robert	A.	Lambourne	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	11-0401-CON1019A /15-1432
	Application Number	
Title of Invention	Playback Device Pairing	

City	Santa Barbara	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	614 Chapala Street		
Address 2			
City	Santa Barbara	State/Province	CA
Postal Code	93101	Country	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Robert		Reimann	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Santa Barbara	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	614 Chapala Street		
Address 2			
City	Santa Barbara	State/Province	CA
Postal Code	93101	Country	US

Inventor 5 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Mark		Triplett	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	St. Charles	State/Province	IL	Country of Residence	US

Mailing Address of Inventor:

Address 1	614 Chapala Street		
Address 2			
City	Santa Barbara	State/Province	CA
Postal Code	93101	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	11-0401-CON1019A /15-1432
	Application Number	
Title of Invention	Playback Device Pairing	

Customer Number	107361		
Email Address	docketing@mbhb.com	Add Email	Remove Email

Application Information:

Title of the Invention	Playback Device Pairing		
Attorney Docket Number	11-0401-CON1019A /15-1432	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	21	Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	107361		

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	11-0401-CON1019A /15-1432
	Application Number	
Title of Invention	Playback Device Pairing	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	16/128443	2018-09-11

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16/128443	Continuation of	14/629937	2015-02-24	10136218	2018-11-20

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14/629937	Continuation of	14/299847	2014-06-09	9219959	2015-12-22

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14/299847	Continuation of	13/083499	2011-04-08	8788080	2014-07-22

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13/083499	Continuation in part of	13/013740	2011-01-25	9202509	2015-12-01

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13/013740	Continuation in part of	11/853790	2007-09-11	8483853	2013-07-09

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
11/853790	Claims benefit of provisional	60/825407	2006-09-12

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	11-0401-CON1019A /15-1432
	Application Number	
Title of Invention	Playback Device Pairing	

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	11-0401-CON1019A /15-1432
	Application Number	
Title of Invention	Playback Device Pairing	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	11-0401-CON1019A /15-1432
	Application Number	
Title of Invention	Playback Device Pairing	

Applicant Information:

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Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
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If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	11-0401-CON1019A /15-1432
	Application Number	
Title of Invention	Playback Device Pairing	

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See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Jeffrey P. Armstrong/			Date (YYYY-MM-DD)	2019-10-31
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UNITED STATES PATENT & TRADEMARK OFFICE

Docket No. 11-0401-CON1019A
(15-1432-US-CON5)

Title: Playback Device Pairing

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CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a continuation of U.S. App. 16/128,443 titled "Playback Device Pairing," filed on September 11, 2018, and currently pending; U.S. App. 16/128,443 is a continuation of U.S. App. 14/629,937 titled "Gain Based on Play Responsibility" filed on February 24, 2015, and issued on November 20, 2018, as U.S. Pat. 10,136,218; U.S. App. 14/629,937 is a continuation of U.S. App. 14/299,847 titled "Multi-channel pairing in a media system" filed on June 9, 2014, and issued on December 22, 2015, as U.S. Pat. 9,219,959; U.S. App. 14/299,847 is a continuation of U.S. App. 13/083,499 titled "Multi-channel pairing in a media system" filed on April 8, 2011, and issued on July 22, 2014, as U.S. Pat. 8,788,080; U.S. App. 13/083,499 is a continuation-in-part of U.S. App. 13/013,740 titled "Controlling and grouping in a multi-zone media system" filed on January 25, 2011 and issued on December 1, 2015, as U.S. Pat. 9,202,509; U.S. App. 13/013,740 is a continuation-in-part of U.S. App. 11/853,790 titled "Controlling and manipulating groupings in a multi-zone media system," filed September 11, 2007, and issued on July 9, 2013, as U.S. Pat. 8,483,853; U.S. App. 11/853,790 claims priority to U.S. Provisional App. 60/825,407 titled "Controlling and manipulating groupings in a multi-zone music or media system" filed on September 12, 2006, and now expired. The entire contents of the 16/128,443; 14/629,937; 14/299,847; 13/083,499; 13/013,740; 11/853,790; and 60/825,407 applications are incorporated herein by reference.

BACKGROUND

[0002] The presently described technology is directed towards technology for use in the area of consumer electronics. In particular, certain embodiments are directed to multi-channel pairing in a media system.

[0003] Music is very much a part of our everyday lives. And thanks to the advancement of technology, music content is now more accessible than ever. The same can be said of other types of media, such as television, movies, and other audio and video content. In fact, now a user can even access the content over the Internet through an online store, an Internet radio station, online

music service, online movie service, and the like, in addition to the more traditional means of accessing audio and video content.

[0004] The demand for such audio and video content continues to surge. Given the high demand over the years, technology used to access and play such content has likewise improved. Even still, technology used in accessing the content and the playback of such content can be significantly improved or developed in ways that the market or end users may not anticipate.

SUMMARY

[0005] The embodiments described herein include, but are not limited to, various devices, systems, methods, and computer program products. This section is for the purpose of summarizing some aspects of certain embodiments. Simplifications or omissions in this section as well as in the abstract or the title of this description may be made to avoid obscuring the purpose of this section, the abstract and the title. Such simplifications or omissions are not intended to limit the scope of the various inventions described herein.

[0006] In brief summary, the embodiments described herein provide technology for grouping, consolidating, and pairing individual playback devices to create or enhance a multi-channel listening environment. Particularly, the embodiments described herein enable two or more playback devices to be paired, such that multi-channel audio is achieved or enhanced. Such embodiments may be used to produce stereo sound or other audio environments suitable for audio content encoded with more than two channels, such as for certain kinds of television, movies, and music.

[0007] For example, an apparatus according to an embodiment comprises a network interface, a plurality of speaker drivers, an amplifier, and a processor. The network interface receives audio data over a network. The amplifier powers the plurality of speaker drivers. The processor processes the audio data to be output through the plurality of speaker drivers. The

processor further configures a first equalization of the output from the plurality of speaker drivers in accordance with a first type of pairing and configuring a second equalization of the output from the plurality of speaker drivers in accordance with a second type of pairing.

[0008] In another example, a method according to an embodiment comprises receiving audio data over a network and processing the audio data to be output through a plurality of speaker drivers. The method further includes configuring a first equalization of the output from the plurality of speaker drivers in accordance with a first type of pairing and configuring a second equalization of the output from the plurality of speaker drivers in accordance with a second type of pairing.

[0009] One of the objects, features, and advantages of the present invention is to achieve or enhance a multi-channel listening environment. Many other objects, features, and advantages of the present invention will become apparent upon examining the following detailed description of an embodiment thereof, taken in conjunction with the attached drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] These and other features, aspects, and advantages of the presently described technology will become better understood by a person skilled in the art with regard to the following description, appended claims, and accompanying drawings where:

[0011] FIG. 1 shows an illustrative configuration in which certain embodiments may be practiced;

[0012] FIG. 2A shows an illustrative functional block diagram of a player in accordance with certain embodiments;

[0013] FIG. 2B shows an example of a controller that may be used to remotely control one or more players of FIG. 2A;

[0014] FIG. 2C shows an example of a controller that may be used to remotely control one or more players of FIG. 2A;

[0015] FIG. 2D shows an example internal functional block diagram of a controller in accordance with certain embodiments;

[0016] FIG. 3A provides an illustration of a zone scene configuration;

[0017] FIG. 3B shows that a user defines multiple groups to be gathered at the same time;

[0018] FIG. 4 shows an example user interface that may be displayed on a controller or a computer of FIG. 1;

[0019] FIG. 5A shows an example user interface to allow a user to form a scene;

[0020] FIG. 5B shows another example user interface to allow a user to form a scene;

[0021] FIG. 5C shows an example user interface to allow a user to adjust a volume level of the zone players in a zone scene individually or collectively;

[0022] FIG. 6 shows a flowchart or process of providing a player theme or a zone scene for a plurality of players, where one or more of the players are placed in a zone;

[0023] FIG. 7 shows an illustrative configuration in which an audio source is played back on two players in accordance to an embodiment;

[0024] FIG. 8 shows an illustrative configuration of a pairing amongst multiple players in accordance to an embodiment;

[0025] FIG. 9 shows a flowchart or process of grouping a plurality of audio products to play separated sound tracks in synchronization to simulate a multi-channel listening environment; and

[0026] FIGS. 10A to 10F show example snapshots of a controller used in certain embodiments.

[0027] In addition, the drawings are for the purpose of illustrating certain embodiments, but it is understood that the inventions are not limited to the arrangements and instrumentality shown in the drawings.

DETAILED DESCRIPTION

I. Overview

[0028] The embodiments described herein relate to multi-channel pairing in a media system. The embodiments are particularly useful in pairing two or more playback devices together to create or enhance multi-channel audio reproduction, like stereo, surround sound, or some other multi-channel environment. The embodiments will also find utility in connection with any system for which multi-channel pairing is desired.

[0029] In an embodiment, two playback devices that are each configured to output a plurality of audio channels independent of each other are selectively paired, such that subsequent to pairing, one playback device is configured to output a first subset of the plurality of audio channels and the other playback device is configured to output a second subset of the plurality of audio channels. The first and second subsets are different. For instance, each playback device is configured to operate in a two-channel mode or stereo mode prior to being paired (e.g., each playback device is configured to play both right and left channel audio). Subsequent to pairing, one playback device is reconfigured to output a first channel (e.g., right channel audio and not left channel audio) and the other playback device is reconfigured to output a second channel (e.g., left channel audio and not right channel audio), which is different from the first channel.

[0030] In another embodiment, a collection of three or more playback devices that are each configured to output a plurality of audio channels independent of another playback device in the collection are selectively paired, such that subsequent to pairing, each of the playback devices is configured to output a different audio channel from the collection. This embodiment is particularly useful in a television or movie theater type setting where a particular playback device of the multiple playback devices is configured to output in two-channel or stereo mode at one time (e.g., when playing a song), and subsequent to pairing, is configured to output as a

front-right channel, a front-center channel, a front-left channel, a rear-right channel, a rear-left channel, a subwoofer channel, and so on (e.g., when watching television or a movie or listening to music that contains more than two-channels).

[0031] In another embodiment, one of the paired playback devices processes the data of an audio item to separate the data into channels, each of the channels representing a single-sound track, for example. The playback device sends the separated channel(s) to the other, respective playback device(s). The playback devices play their distinctive channels in synchrony, thus creating a multi-channel listening environment. Alternatively, each of the paired playback devices processes the data of an audio item, or a portion of the data, and plays only those one or more channels designated for the respective playback device.

[0032] In another embodiment, two or more playback devices may be grouped into a single or consolidated playback device and the consolidated playback device may be paired with one or more playback devices. For instance, two playback devices may be grouped into a first consolidated playback device and two additional playback devices may be grouped into a second consolidated playback device. The first and second consolidated playback devices may be paired, for example. In certain embodiments, each playback device of a consolidated playback device is put into consolidated mode, which may result in a changed equalization for one or more speaker drivers of any particular playback device. Further, one or more additional playback devices may be added to a consolidated playback device.

[0033] In certain embodiments, a playback device that is configured to output an audio channel is paired with one or more additional playback devices, such that the playback device is reconfigured to output a different audio channel. For instance, the playback device might be configured to output a right channel for stereo mode, but subsequent to being paired with one or more additional playback devices, might be reconfigured to output a rear, right channel for theater mode. The playback device may be paired to one or more other playback devices.

[0034] In certain embodiments, a playback device that is configured to output a plurality of audio channels is paired with one or more additional playback devices, such that the playback device is configured to output a subset of the plurality of audio channels relative to the one or more additional playback devices. For instance, the playback device might be configured to output in two-channel or stereo mode, but subsequent to being paired with one or more playback devices might be configured to output a right or left channel. The playback device may be paired to one or more other playback devices.

[0035] In certain embodiments, a playback device comprises a network interface, one or more speaker drivers, an amplifier, and a processor. The network interface receives audio data over a network. The amplifier powers the speaker drivers. The processor processes the audio data to be output through the speaker drivers. The processor further configures a first equalization of the output from the speaker drivers in accordance with a first type of pairing and configuring a second equalization of the output from the speaker drivers in accordance with a second type of pairing. The playback device may operate in any of: non paired mode, paired mode, consolidated mode, and grouped mode.

[0036] In certain embodiments, a controller is configured to, among other things, pair two or more playback devices to establish a multi-channel audio environment. That is, through the controller, a user can select which playback devices to pair. Once programmed, the playback devices may operate in paired mode until disengaged, for example. In some embodiments, the controller is wirelessly coupled to the one or more playback devices. In other embodiments, the controller is wired to the one or more playback devices.

[0037] According to certain embodiments, the action of pairing two or more playback devices is triggered based on a command from a user via a control interface (e.g., a manual command creates a pair) or responsive to an event (e.g., an automatic command creates a pair). Example events include a detection in the change of audio content (e.g., the audio content goes

from having two-channel content to three or more channel content, and vice-versa), a detection of a certain time, a detection of a certain kind of entertainment (e.g., detecting that the user is watching television versus just listening to music), or any other event that is programmed to create a pair amongst playback devices. The event detection might occur by a controller, one of the playback devices, or some other device, for example.

[0038] According to certain embodiments, in an attempt to optimize the multi-channel pairing, the configuration of a playback device may include any of: changing the equalization of the playback device by changing the equalization of one or more specific speaker drivers and optimizing the synchronization between paired devices. Examples of changing the equalization are described more below.

[0039] These embodiments and many additional embodiments are described more below. Further, the detailed description is presented largely in terms of illustrative environments, systems, procedures, steps, logic blocks, processing, and other symbolic representations that directly or indirectly resemble the operations of data processing devices coupled to networks. These process descriptions and representations are typically used by those skilled in the art to most effectively convey the substance of their work to others skilled in the art. Numerous specific details are set forth in order to provide a thorough understanding of the present invention. However, it is understood to those skilled in the art that certain embodiments of the present invention may be practiced without certain, specific details. In other instances, well known methods, procedures, components, and circuitry have not been described in detail to avoid unnecessarily obscuring aspects of the embodiments.

[0040] Reference herein to "embodiment" means that a particular feature, structure, or characteristic described in connection with the embodiment can be included in at least one embodiment of the invention. The appearances of this phrase in various places in the specification are not necessarily all referring to the same embodiment, nor are separate or

alternative embodiments mutually exclusive of other embodiments. The embodiments described herein, explicitly and implicitly understood by one skilled in the art, may be combined with other embodiments.

II. Example Environment

[0041] Referring now to the drawings, in which like numerals may refer to like parts throughout the several views. FIG. 1 shows an exemplary configuration **100** in which certain embodiments may be practiced. The configuration **100** may represent, but not be limited to, a part of a residential home, a business building, or a complex with multiple zones. There are a number of multimedia players of which three examples **102**, **104** and **106** are shown as audio devices. Each of the audio devices may be installed or provided in one particular area or zone and hence referred to as a zone player herein. It is understood that a zone can comprise more than one zone player.

[0042] As used herein, unless explicitly stated otherwise, an audio source or audio sources are generally in digital format and can be transported or streamed over a data network. To facilitate the understanding of the example environment of FIG. 1, it is assumed that the configuration **100** represents a home. Though, it is understood that this technology is not limited to its place of application. Referring back to FIG. 1, the zone players **102** and **104** may be located in one or two of the bedrooms while the zone player **106** may be installed or positioned in a living room. All of the zone players **102**, **104,** and **106** are coupled directly or indirectly to a data network **108**. In addition, a computing device **110** is shown to be coupled on the network **108**. In reality, any other device such as a home gateway device, a storage device, or an MP3 player may be coupled to the network **108** as well.

[0043] The network **108** may be a wired network, a wireless network or a combination of both. In one example, all devices including the zone players **102**, **104,** and **106** are coupled to the network **108** by wireless means based on an industry standard such as IEEE 802.11. In yet

another example, all devices including the zone players **102**, **104,** and **106** are part of a local area network that communicates with a wide area network (e.g., the Internet). In still another example, all devices including the zone players **102**, **104** and **106** and a controller **142** forms an ad-hoc network and may be specifically named, e.g., a household identifier: Smith Family, to be differentiated from a similar neighboring setup with a household identifier, e.g., Kallai Family.

[0044] Many devices on the network **108** are configured to download and store audio sources. For example, the computing device **110** can download audio sources, such as music or audio associated with videos, from the Internet (e.g., the "cloud") or some other source and store the downloaded audio sources locally for sharing with other devices on the Internet or the network **108**. The computing device **110** or any of the zone players **102**, **104**, and **106** can also be configured to receive streaming audio. Shown as a stereo system, the device **112** is configured to receive an analog audio source (e.g., from broadcasting) or retrieve a digital audio source (e.g., from a compact disk). The analog audio sources can be converted to digital audio sources. In accordance with certain embodiments, the various audio sources may be shared among the devices on the network **108**.

[0045] Two or more zone players (e.g., any two or more of the zone players 102, 104, and 106) may be grouped together to form a new zone group. Any combinations of zone players and an existing zone group may be grouped together. In one instance, a new zone group is formed by adding one zone player to another zone player or an existing zone group.

[0046] In certain embodiments, there are two or more zone players in one environment (e.g., a living room in a house). Instead of grouping these two zone players to play back the same audio source in synchrony, these two zone players may be configured to play two separate sounds in left and right channels. In other words, the stereo effects of a sound are reproduced or enhanced through these two zone players, one for the left sound and the other for the right sound. Likewise, for a 3-channel (or 2.1 sound effects) sound, three such zone players may be

reconfigured as if there are three speakers: left and right speakers and a subwoofer to form a stereo sound. The details of the reconfiguring the zone players and operating these audio products are described more below. Similar configurations with multiple channels (greater than 3, such as 4, 5, 6, 7, 9 channels and so on) also apply. For example, configurations that use more than two channels may be useful in television and theater type settings, where video content such as in the form of television and movies is played together with audio content that contains more than two channels. Further, certain music might similarly be encoded with more than two channel sound.

[0047] In certain embodiments, two or more zone players may be consolidated to form a single, consolidated zone player. The consolidated zone player may further be paired with a single zone player or yet another consolidated zone player. A consolidated zone player may comprise one or more individual playback devices. Each playback device of a consolidated playback device is preferably set in a consolidated mode.

[0048] According to some embodiments, one can continue to do any of: group, consolidate, and pair until a desired configuration is complete. The actions of grouping, consolidation, and pairing are preferably performed through a control interface and not by physically connecting and re-connecting speaker wire, for example, to individual, discrete speakers to create different configurations. As such, certain embodiments described herein provide a more flexible and dynamic platform through which sound reproduction can be offered to the end-user.

[0049] It is understood that the technology described herein is not limited to its place of application. For example, it is understood that zones and zone players, and the embodiments described herein, may also be used in vehicles, on water craft, airplanes, amphitheaters, outdoors, along the streets in a village or city, and so on, in addition to homes, offices, gyms, schools, hospitals, hotels, movie theaters, malls, stores, casinos, museum, entertainment parks, or any other place where audio content is played. As such, it will be appreciated that the

embodiments described herein may be used in connection with any system or application for which multi-channel pairing is desired.

III. Example Playback Devices

[0050] Referring now to FIG. 2A, there is shown an exemplary functional block diagram of a zone player **200** in accordance with an embodiment. The zone player **200** includes a network interface **202**, a processor **204**, a memory **206**, an audio processing circuit **210**, a module **212**, optionally, an audio amplifier **214** that may be internal or external, and optionally, a speaker unit **218** connected to the audio amplifier **214**. The network interface **202** facilitates a data flow between a data network (i.e., the data network **108** of FIG. 1) and the zone player **200** and typically executes a special set of rules (i.e., a protocol) to send data back and forth. One of the common protocols used in the Internet is TCP/IP (Transmission Control Protocol/Internet Protocol). In general, a network interface **202** manages the assembling of an audio source or file into smaller packets that are to be transmitted over the data network or reassembles received packets into the original source or file. In addition, the network interface **202** handles the address part of each packet so that it gets to the right destination or intercepts packets destined for the zone player **200**. Accordingly, in certain embodiments, each of the packets includes an IP-based source address as well as an IP-based destination address.

[0051] The network interface **202** may include one or both of a wireless interface **216** and a wired interface **217**. The wireless interface **216**, also referred to as an RF interface, provides network interface functions by a wireless means for the zone player **200** to communicate with other devices in accordance with a communication protocol (such as the wireless standard IEEE 802.11a, 802.11b, 802.11g, 802.11n, or 802.15.1). The wired interface **217** provides network interface functions by a wired means (e.g., an Ethernet cable). In one embodiment, a zone player includes both of the interfaces **216** and **217**, and other zone players include only a RF or wired interface. Thus these other zone players communicate with other devices on a network or retrieve

audio sources via the zone player. The processor **204** is configured to control the operation of other parts in the zone player **200**. The memory **206** may be loaded with one or more software modules that can be executed by the processor **204** to achieve desired tasks. According to one embodiment, a software module implementing an embodiment, such as described herein, is executed, the processor **204** operates in accordance with the software module in reference to a saved zone group configuration characterizing a zone group created by a user, the zone player **200** is caused to retrieve an audio source from another zone player or a device on the network and synchronize the players in the zone group to play back the audio source as desired. According to another embodiment, a software module implementing an embodiment described herein creates a pair between two or more zone players to create a desired multi-channel audio environment.

[0052] According to one embodiment, the memory **206** is used to save one or more saved zone configuration files that may be retrieved for modification at any time. Typically, a saved zone group configuration file is transmitted to a controller (e.g., the controlling device **140** or **142** of FIG. 1, a computer, a portable device, or a TV) when a user operates the controlling device. The zone group configuration provides an interactive user interface so that various manipulations or control of the zone players may be performed.

[0053] In certain embodiments, the audio processing circuit **210** resembles the circuitry in an audio playback device and includes one or more digital-to-analog converters (DAC), an audio preprocessing part, an audio enhancement part or a digital signal processor and others. In operation, when an audio source is retrieved via the network interface **202**, the audio source is processed in the audio processing circuit **210** to produce analog audio signals. The processed analog audio signals are then provided to the audio amplifier **214** for playback on speakers. In addition, the audio processing circuit **210** may include necessary circuitry to process analog signals as inputs to produce digital signals for sharing with other devices on a network.

[0054] Depending on an exact implementation, the module **212** may be implemented as a combination of hardware and software. In one embodiment, the module **212** is used to save a scene. The audio amplifier **214** is typically an analog circuit that powers the provided analog audio signals to drive one or more speakers.

[0055] It is understood that zone player **200** is an example of a playback device. Examples of playback devices include those zone players that are commercially offered for sale by Sonos, Inc. of Santa Barbara, California. They currently include a ZonePlayer 90, ZonePlayer 120, and Sonos S5. The ZonePlayer 90 is an example zone player without a built-in amplifier, whereas the ZonePlayer 120 is an example zone player with a built-in amplifier. The S5 is an example zone player with a built-in amplifier and speakers. In particular, the S5 is a five-driver speaker system that includes two tweeters, two mid-range drivers, and one subwoofer. When playing audio content via the S5, the left audio data of a track is sent out of the left tweeter and left mid-range driver, the right audio data of a track is sent out of the right tweeter and the right mid-range driver, and mono bass is sent out of the subwoofer. Further, both mid-range drivers and both tweeters have the same equalization (or substantially the same equalization). That is, they are both sent the same frequencies, just from different channels of audio. While the S5 is an example of a zone player with speakers, it is understood that a zone player with speakers is not limited to one with a certain number of speakers (e.g., five speakers as in the S5), but rather can contain one or more speakers. Further, a zone player may be part of another device, which might even serve a primary purpose different than audio.

IV. Example Controller

[0056] Referring now to FIG. 2B, there is shown an exemplary controller **240**, which may correspond to the controlling device **140** or **142** of FIG. 1. The controller **240** may be used to facilitate the control of multi-media applications, automation and others in a complex. In particular, the controller **240** is configured to facilitate a selection of a plurality of audio sources

available on the network, controlling operations of one or more zone players (e.g., the zone player **200**) through a RF interface corresponding to the wireless interface **216** of FIG. 2A. According to one embodiment, the wireless means is based on an industry standard (e.g., infrared, radio, wireless standard IEEE 802.11a, 802.11b 802.11g, 802.11n, or 802.15.1). When a particular audio source is being played in the zone player **200**, a picture, if there is any, associated with the audio source may be transmitted from the zone player **200** to the controller **240** for display. In one embodiment, the controller **240** is used to synchronize audio playback of more than one zone player by grouping the zone players in a group. In another embodiment, the controller **240** is used to control the volume of each of the zone players in a zone group individually or together.

[0057] In an embodiment, the controller **240** is used to create a pairing between two or more playback devices to create or enhance a multi-channel listening environment. For example, the controller **240** may be used to select and pair two or more playback devices. In addition, the controller **240** may be used to turn pairing on or off. The controller **240** may also be used to consolidate playback devices, and further to set a particular playback device in consolidated mode. Accordingly, in some embodiments, the controller **240** provides a flexible mechanism for dynamically configuring a multi-channel audio environment. In some instances, the pairing creates a multi-channel listening environment. In some instances, the pairing enhances a multi-channel listening environment by increasing the separation between devices. For example, two individual playback devices, which are positioned at a distance from each other, may provide more channel separation to the listener than the audio coming from only a single device.

[0058] The user interface for the controller **240** includes a screen **242** (e.g., a LCD screen) and a set of functional buttons as follows: a "zones" button **244**, a "back" button **246**, a "music" button **248**, a scroll wheel **250**, "ok" button **252**, a set of transport control buttons **254**, a mute button **262**, a volume up/down button **264**, a set of soft buttons **266** corresponding to the labels **268** displayed on the screen **242**.

[0059] The screen **242** displays various screen menus in response to a user's selection. In one embodiment, the "zones" button **244** activates a zone management screen or "Zone Menu", which is described in more details below. The "back" button **246** may lead to different actions depending on the current screen. In one embodiment, the "back" button triggers the current screen display to go back to a previous one. In another embodiment, the 'back" button negates the user's erroneous selection. The "music" button **248** activates a music menu, which allows the selection of an audio source (e.g., a song) to be added to a zone player's music queue for playback.

[0060] The scroll wheel **250** is used for selecting an item within a list, whenever a list is presented on the screen **242**. When the items in the list are too many to be accommodated in one screen display, a scroll indicator such as a scroll bar or a scroll arrow is displayed beside the list. When the scroll indicator is displayed, a user may rotate the scroll wheel **250** to either choose a displayed item or display a hidden item in the list. The "OK" button **252** is used to confirm the user selection on the screen **242**.

[0061] There are three transport buttons **254,** which are used to control the effect of the currently playing song. For example, the functions of the transport buttons may include play/pause and forward/rewind a song, move forward to a next song track, or move backward to a previous track. According to one embodiment, pressing one of the volume control buttons such as the mute button **262** or the volume up/down button **264** activates a volume panel. In addition, there are three soft buttons **266** that can be activated in accordance with the labels **268** on the screen **242**. It is understood that, in a multi-zone system, there may be multiple audio sources being played respectively in more than one zone players. The music transport functions described herein shall apply selectively to one of the sources when a corresponding one of the zone players or zone groups is selected.

[0062] FIG. 2C shows an exemplary controller **260** which may correspond to the controlling device **140** or **142** of FIG. 1. The controller **260** is provided with a touch screen that allows a user to interact with the controller, for example, to navigate a playlist of many items, to control operations of one or more players. In one embodiment as it will be further shown in FIGS. 10A to 10F, a user may interact with the controller to make a multi-channel audio environment, such as create a stereo pair for example, and may even be used to separate the multi-channel audio environment, such as disengage a stereo pair. It should be noted that other network-enabled portable devices such as an iPhone, iPad or any other smart phone or network-enabled device may be used as a controller to interact or control multiple zone players in an environment (e.g., a networked computer such as a PC or Mac may also be used as a controller). According to one embodiment, an application may be downloaded into a network enabled device. Such an application may implement most of the functions discussed above for the controller **240** using a navigating mechanism or touch screen in the device. Those skilled in the art will appreciate the flexibility of such an application and its ability to be ported to a new type of portable device given the detailed description herein.

[0063] FIG. 2D illustrates an internal functional block diagram of an exemplary controller **270**, which may correspond to the controller **240** of FIG. 2B, a computing device, smart phone, or any other communicative device. The screen **272** on the controller **270** may be an LCD screen. The screen **272** communicates with and is commanded by a screen driver **274** that is controlled by a microcontroller (e.g., a processor) **276**. The memory **282** may be loaded with one or more application modules **284** that can be executed by the microcontroller **276** with or without a user input via the user interface **278** to achieve desired tasks. In one embodiment, an application module is configured to facilitate grouping a number of selected zone players into a zone group and synchronizing the zone players for one audio source. In another embodiment, an application module is configured to control together the audio sounds (e.g., volume) of the zone players in a zone group. In operation, when the microcontroller **276** executes one or more of the application

modules **284**, the screen driver **274** generates control signals to drive the screen **272** to display an application specific user interface accordingly, more of which will be described below.

[0064] The controller **270** includes a network interface **280** referred to as a RF interface **280** that facilitates wireless communication with a zone player via a corresponding RF interface thereof. In one embodiment, the commands such as volume control and audio playback synchronization are sent via the RF interfaces. In another embodiment, a saved zone group configuration is transmitted between a zone player and a controller via the RF interfaces. The controller **270** may control one or more zone players, such as **102**, **104** and **106** of FIG. 1. Nevertheless, there may be more than one controller, each preferably in a zone (e.g., a room or rooms nearby each other) and configured to control any one and all of the zone players.

[0065] In one embodiment, a user creates a zone group including at least two zone players from the controller **240** that sends signals or data to one of the zone players. As all the zone players are coupled on a network, the received signals in one zone player can cause other zone players in the group to be synchronized so that all the zone players in the group play back an identical audio source or a list of identical audio sources in a timely synchronized manner such that no (or substantially no) audible delays or hiccups could be heard. Similarly, when a user increases the audio volume of the group from the controller, the signals or data of increasing the audio volume for the group are sent to one of the zone players and causes other zone players in the group to be increased together in volume and in scale.

[0066] According to one implementation, an application module is loaded in memory **282** for zone group management. When a predetermined key (e.g. the "zones" button **244**) is activated on the controller **240**, the application module is executed in the microcontroller **276**. The input interface **278** coupled to and controlled by the microcontroller **276** receives inputs from a user. A "Zone Menu" is then displayed on the screen **272**. The user may start grouping zone players into a zone group by activating a "Link Zones" or "Add Zone" soft button, or de-grouping a zone

group by activating an "Unlink Zones" or "Drop Zone" button. The detail of the zone group manipulation will be further discussed below.

[0067] As described above, the input interface **278** includes a number of function buttons as well as a screen graphical user interface. It should be pointed out that the controller **240** in FIG. 2B is not the only controlling device that may practice the embodiments. Other devices that provide the equivalent control functions (e.g., a computing device, a hand-held device) may also be configured to practice the present invention. In the above description, unless otherwise specifically described, it is clear that keys or buttons are generally referred to as either the physical buttons or soft buttons, enabling a user to enter a command or data.

[0068] One mechanism for 'joining' zone players together for music playback is to link a number of zone players together to form a group. To link a number of zone players together, a user may manually link each zone player or room one after the other. For example, there is a multi-zone system that includes the following zones:

Bathroom

Bedroom

Den

Dining Room

Family Room

Foyer

[0069] If a user wishes to link five of the six zone players using the current mechanism, the user may start with a single zone and then manually link each zone to that zone. This mechanism may be sometimes quite time consuming. According to one embodiment, a set of zones can be dynamically linked together using one command. Using what is referred to herein as a theme or a zone scene, zones can be configured in a particular scene (e.g., morning, afternoon, or garden),

where a predefined zone grouping and setting of attributes for the grouping are automatically effectuated.

[0070] For instance, a "Morning" zone scene/configuration command would link the Bedroom, Den and Dining Room together in one action. Without this single command, the user would need to manually and individually link each zone. FIG. 3A provides an illustration of one zone scene, where the left column shows the starting zone grouping – all zones are separate, the column on the right shows the effects of grouping the zones to make a group of 3 zones named after "Morning".

[0071] Expanding this idea further, a Zone Scene can be set to create multiple sets of linked zones. For example, a scene creates 3 separate groups of zones, the downstairs zones would be linked together, the upstairs zones would be linked together in their own group, and the outside zones (in this case the patio) would move into a group of its own.

[0072] In one embodiment as shown in FIG. 3B, a user defines multiple groups to be gathered at the same time. For example: an "Evening Scene" is desired to link the following zones:

- Group1
  - Bedroom
  - Den
  - Dining Room
- Group 2
  - Garage
  - Garden

where Bathroom, Family Room and Foyer should be separated from any group if they were part of a group before the Zone Scene was invoked.

[0073] A feature of certain embodiments is that that zones do not need to be separated before a zone scene is invoked. In one embodiment, a command is provided and links all zones in one step, if invoked. The command is in a form of a zone scene. After linking the appropriate zones, a zone scene command could apply the following attributes:

Set volumes levels in each zones (each zone can have a different volume)

Mute/Unmute zones.

Select and play specific music in the zones.

Set the play mode of the music (Shuffle, Repeat, Shuffle-repeat)

Set the music playback equalization of each zone (e.g., bass treble).

[0074] A further extension of this embodiment is to trigger a zone scene command as an alarm clock function. For instance the zone scene is set to apply at 8:00am. It could link appropriate zones automatically, set specific music to play and then stop the music after a defined duration. Although a single zone may be assigned to an alarm, a scene set as an alarm clock provides a synchronized alarm, allowing any zones linked in the scene to play a predefined audio (e.g., a favorable song, a predefined playlist) at a specific time or for a specific duration. If, for any reason, the scheduled music failed to be played (e.g., an empty playlist, no connection to a share, failed UPnP, no Internet connection for an Internet Radio station), a backup buzzer will sound. This buzzer will be a sound file that is stored in a zone player.

[0075] FIG. 4 shows an exemplary user interface **400** that may be displayed on a controller **142** or a computer **110** of FIG. 1. The interface **400** shows a list of items that may be set up by a user to cause a scene to function at a specific time. In the embodiment shown in FIG. 4, the list of items includes “Alarm”, “Time”, “Zone”, “Music”, “Frequency” and “Alarm length”. “Alarm” can be set on or off. When “Alarm” is set on, “Time” is a specific time to set off the alarm. “Zone” shows which zone players are being set to play a specified audio at the specific time. “Music” shows what to be played when the specific time arrives. “Frequency” allows the user to define a frequency of the alarm. “Alarm length” defines how long the audio is to be

played. It should be noted that the user interface **400** is provided herein to show some of the functions associated with setting up an alarm. Depending on an exact implementation, other functions, such as time zone, daylight savings, time synchronization, and time/date format for display may also be provided.

[0076] According to one embodiment, each zone player in a scene may be set up for different alarms. For example, a "Morning" scene includes three zone players, each in a bedroom, a den, and a dining room. After selecting the scene, the user may set up an alarm for the scene as whole. As a result, each of the zone players will be activated at a specific time.

[0077] FIG. 5A shows a user interface **500** to allow a user to form a scene. The panel on the left shows the available zones in a household. The panel on the right shows the zones that have been selected and be grouped as part of this scene. Depending on an exact implementation of a user interface, Add/Remove buttons may be provided to move zones between the panels, or zones may be dragged along between panels.

[0078] FIG. 5B shows another user interface **520** to allow a user to form a scene. The user interface **520** that may be displayed on a controller or a computing device, lists available zones in a system. A checkbox is provided next to each of the zones so that a user may check in the zones to be associated with the scene.

[0079] FIG. 5C shows a user interface **510** to allow a user to adjust a volume level of the zone players in a zone scene individually or collectively. As shown in the user interface **510**, the 'Volumes…' button (shown as sliders, other forms are possible) allows the user to affect the volumes of the associated zone players when a zone scene is invoked. In one embodiment, the zone players can be set to retain whatever volume that they currently have when the scene is invoked. Additionally the user can decide if the volumes should be unmuted or muted when the scene is invoked.

V. Providing Example Player Themes or Zone Scenes

[0080] FIG. 6 shows a flowchart or process **600** of providing a player theme or a zone scene for a plurality of players, where one or more of the players are placed in a zone. The process **600** is presented in accordance with one embodiment of the present invention and may be implemented in a module to be located in the memory **282** of FIG. 2C.

[0081] The process **600** is initiated when a user decides to proceed with a zone scene at **602**. The process **600** then moves to **604** where it allows a user to decide which zone players to be associated with the scene. For example, there are ten players in a household, and the scene is named after "Morning". The user may be given an interface to select four of the ten players to be associated with the scene. At **606**, the scene is saved. The scene may be saved in any one of the members in the scene. In the example of FIG. 1, the scene is saved in one of the zone players and displayed on the controller **142**. In operation, a set of data pertaining to the scene includes a plurality of parameters. In one embodiment, the parameters include, but may not be limited to, identifiers (e.g., IP address) of the associated players and a playlist. The parameters may also include volume/tone settings for the associated players in the scene. The user may go back to **602** to configure another scene if desired.

[0082] Given a saved scene, a user may activate the scene at any time or set up a timer to activate the scene at **610**. The process **600** can continue when a saved scene is activated at **610**. At **612**, upon the activation of a saved scene, the process **600** checks the status of the players associated with the scene. The status of the players means that each of the players shall be in condition to react in a synchronized manner. In one embodiment, the interconnections of the players are checked to make sure that the players communicate among themselves and/or with a controller if there is such a controller in the scene.

[0083] It is assumed that all players associated with the scene are in good condition. At **614**, commands are executed with the parameters (e.g., pertaining to a playlist and volumes). In one

embodiment, data including the parameters is transported from a member (e.g., a controller) to other members in the scene so that the players are caused to synchronize an operation configured in the scene. The operation may cause all players to play back a song in identical or different volumes or to play back a pre-stored file.

VI. Example Multi-channel Environments

[0084] FIG. 7 shows an example configuration in which an audio source is played back on two players **702** and **704**, according to an example embodiment. These two players **702** and **704** may be located in and around one place (e.g., a hall, room, or nearby rooms) and are designated to play two sound tracks respectively. For example, an audio source may have left and right sound channels or tracks (e.g., stereo sound). Instead of grouping the players **702** and **704** to play back the audio source together in synchrony, where each player **702** and **704** plays the same audio content at substantially the same time, the players **702** and **704** can be paired to play different channels of the audio source in synchrony. As a result of pairing, the stereo sound effects can be simulated or enhanced via two players **702** and **704** versus one player or none of the players, for example.

[0085] In certain embodiments, each player of players **702** and **704** includes a network interface, one or more speaker drivers (two or more speaker drivers in some instances, such as when the player can play in stereo mode absent pairing), an amplifier, and a processor, such as shown in FIG. 2A. The network interface receives audio data over a network. One or more amplifiers power the speaker drivers. The processor processes the audio data to be output through the speaker drivers. The processor may further configure a first equalization of the output from the speaker drivers in accordance with a first type of pairing and configuring a second equalization of the output from the speaker drivers in accordance with a second type of pairing.

[0086] In an embodiment, the two players **702** and **704** are configured to output a plurality of audio channels independent of each other. For example, each player **702** and **704** may be configured to output audio content in stereo independently from each other. Subsequent to pairing, one playback device (e.g., player **702**) is configured to output a first subset of the plurality of audio channels and the other playback device (e.g., player **704**) is configured to output a second subset of the plurality of audio channels. The first and second subsets are different. In this example, subsequent to pairing players **702** and **704**, player **702** might play the right channel and player **704** might play the left channel. In another example, player **702** might play the right channel plus a center channel (e.g., in television or theater mode) and player **704** might play the left channel plus the center channel. Even in the latter example, the first and second subsets are different in that player **702** is playing channels Right + Center and player **704** is playing channels Left + Center. In yet another embodiment, subsequent to pairing, player **702** might play all channels except certain bass frequencies, which may be played via player **704**, thereby using player **704** as a subwoofer.

[0087] In another embodiment, a collection of three or more playback devices (e.g., players **702**, **704**, and one or more additional players) are each configured to output a plurality of audio channels independent of another playback device in the collection. Subsequent to pairing, each of the playback devices is configured to output a generally different audio channel(s) from the collection. This embodiment is particularly useful in a television or movie theater setting where a particular playback device of the multiple playback devices is configured to output in two-channel or stereo mode at one time (e.g., when playing a song), and subsequent to pairing, is configured to output as a front-right channel, a front-center channel, a front-left channel, a rear-right channel, a rear-left channel, and so on (e.g., when watching a movie or television).

[0088] In another embodiment, one of the paired playback devices (e.g., player **702** or player **704**) processes the data of the audio item, essentially separating the data into channels, each of the channels representing a single-sound track, for example, and being played back in one of the

playback devices, thus creating or enhancing a multi-channel listening environment. In an alternative embodiment, both playback devices (e.g., players **702** and **704**) may receive and process the data of the audio item and each playback device may output only the audio content designated for the respective player. For example, player **702** might receive both left and right channel audio, but only play the left channel, whereas player **704** might also receive both left and right channel audio, but only play the right channel.

[0089] In another embodiment, two or more playback devices (e.g., players **702** or **704**) may be grouped into a single or consolidated playback device and the consolidated playback device (e.g., consolidated player **702** + **704**) may be paired with one or more playback devices. For instance, two playback devices maybe grouped into a first consolidated playback device and two additional playback devices maybe grouped into a second consolidated playback device. Then, the first and second consolidated playback devices may be paired to create or enhance a multi-channel listening environment.

[0090] In certain embodiments, a playback device (e.g., either player **702** or **704**) that is configured to output an audio channel is paired with one or more additional playback devices, such that the playback device is configured to output a different audio channel than previously configured. For instance, the playback device might be configured to output a right channel in stereo mode, but subsequent to being paired with one or more additional playback devices, might be configured to output a rear, right channel in theater mode. The playback device may be paired to one or more other playback devices.

[0091] In certain embodiments, a playback device (e.g., either player **702** or **704**) that is configured to output a plurality of audio channels is paired with one or more additional playback devices, such that the playback device is configured to output a subset of the plurality of audio channels relative to the one or more additional playback devices. For instance, the playback device might be configured to output in two-channel or stereo mode, but subsequent to being

paired with one or more playback devices might be configured to output a right or left channel. The playback device may be paired to one or more other playback devices.

[0092] According to certain embodiments, the action of pairing two or more playback devices is triggered based on a command from a user via a control interface (e.g., a manual command) or responsive to an event (e.g., an automatic command). For example, using a controller, a user can create a pairing between two or more playback devices or disengage the pairing between two or more playback devices. In another example, pairing may be triggered by the audio content itself, a signal received from a source device, or some other predefined event, such that pairing occurs when the event is detected by the controller or playback device, for example. In addition, another device might be programmed to detect the event and provide a pairing signal to the controller and/or playback devices.

[0093] Further, it is understood that going from a configuration of no pairing (unpaired or non paired) to a configuration of pairing or from one kind of pairing (e.g., a pairing used in a type of stereo mode or theater mode) to a different kind of pairing (e.g., another pairing used in a type of stereo mode or theater mode) are all various types of "pairing" that can occur according to certain embodiments. In addition, disengaging a pairing between multiple playback devices might go from pairing to no pairing or from pairing of a first kind back to pairing of a previous kind, for example.

[0094] In one example, a first type of pairing might include "no pairing" with another playback device and a second type of pairing might include pairing with one or more additional playback devices. In a second example, a first type of pairing might include pairing with a second playback device and a second type of pairing might include pairing with a plurality of playback devices. In a third example, a first type of pairing might include reproducing two channel sound via the speaker drivers and a second type of pairing comprises reproducing no more than one channel of the two channel sound via the speaker drivers. In a fourth example, a

first type of pairing might comprise reproducing a first audio channel via the speaker drivers and the second type of pairing might include reproducing a second audio channel via the speaker drivers. In a fifth example, a first type of pairing might include reproducing the audio content via the speaker drivers in stereo mode and a second type of pairing might include reproducing the audio content via the speaker drivers in theater mode. In a sixth example, a first type of pairing might include reproducing the audio content via the speaker drivers and a second type of pairing comprises reproducing the audio content via the speaker drivers when in consolidated mode. It is understood that various variations and modifications may be made to the examples described just above with the attainment of some or all of the advantages of the technology described herein.

[0095] According to certain embodiments, the configuration of a playback device may include any of: changing the equalization of the playback device by changing the equalization of one or more specific speaker drivers and optimizing the synchronization between paired devices. Changing the equalization of the playback device might include any of: turning on or off (or effectively muting) one or more specific speaker drivers, changing the channel output of one or more speaker drivers, changing the frequency response of one or more specific speaker drivers, changing the amplifier gain of any particular speaker driver, changing the amplifier gain of the playback device as a whole.

[0096] In certain embodiments, changing the equalization of a playback device (e.g., changing the equalization of one or more speaker drivers of the playback device) may affect frequency dependent parameters. Examples might include the adjustment of the strength of frequencies within the audio data, a phase adjustment, and time-delay adjustment. In addition, a particular equalization may use a first type of pass filter, such as one that attenuates high, middle, or low frequencies, for example, while allowing other frequencies to pass unfiltered (or substantially unfiltered). Filters might also be different kinds or of a different order (e.g., first order filter, second order filter, third order filter, fourth order filter, and so on). For example, a first equalization of a playback device might include using a first type of pass filter to modify the

output based on a first type of pairing and a second equalization of the playback device might include using a second type of pass filter to modify the output based on the second type of pairing. In this example, the first and second type of pass filters have one or different properties and/or behaviors, thus changing the equalization and sonic behavior of the device.

[0097] By way of illustration, when two S5 devices are paired to create a stereo pair, for example, one S5 device may be configured as the "left" and the other S5 device may be configured as the "right." In one embodiment, the user may determine which is left or right. In this configuration, for example, the left and right audio data may be sent to both S5 devices, but the left audio data of the track is played out of the S5 device configured as left and the right audio data of a track is played out of the S5 device configured as right. In addition, the equalization of each S5 device is changed in an attempt to reduce or eliminate certain constructive or destructive interference. For example, one tweeter on each S5 device may be turned off or substantially muted. In certain embodiments, the crossover frequency to each driver may even be changed from a previous configuration so that two or more drivers are not necessarily outputting the exact same audio data, otherwise constructive and/or destructive interference may occur. In certain embodiments, the amplifier gain is adjusted for a particular speaker driver and/or for the playback device as a whole.

[0098] In operation, according to certain embodiments, a controller **706** (e.g., a controller **142** of FIG. 1 or **240** of FIG. 2B or a portable device) is used to initiate the operation. Through a user interface, the controller **706** causes a player **702** to retrieve the audio source, provided the audio source is on a network **708 (e.g.**, the Internet or a local area network). Similarly, the controller **706** may also cause a designated device (e.g., another networked device) to establish a communication session with the player **702** to deliver the requested audio source. In any case, either one or both of the players **702** and **704** may have access to the data representing the audio source.

[0099] In certain embodiments, a module in the player **702** is activated to process the data. According to one embodiment, the right and left sound tracks are separated. One sound track is retained locally in one player and the other sound track is pushed or uploaded to the other device (e.g., via an ad-hoc network). When the right and left sound tracks are played back simultaneously or substantially simultaneously, the stereo sound effect can be appreciated.

[00100] In another embodiment, several tracks are separated, such as in television or theater mode. For example, the tracks may be separated into a center channel, right front channel, left front channel, right rear channel, left rear channel, and so on. Accordingly, one or more sound tracks may be retained locally in one player and the other sound tracks are pushed or uploaded to the other devices.

[00101] In yet another embodiment, one player might process the data and retain one or more tracks locally, while the remaining data is sent onto another player. The receiving player may then process the data and retain one or more tracks locally and send any remaining data onto another player. This process, or one like it, may continue until all of the tracks are retained locally by corresponding player devices.

[00102] In yet another embodiment, each player might receive and process the data and play only the channel or channels that are designated for that player.

[00103] In certain embodiments, it is important to maintain good synchronization, especially when pairing two or more independently clocked playback devices so that the multi-channel audio content is played back as it was originally intended. According to an embodiment, a message may be initiated from one device to another that is also activated to send back an acknowledgement. Upon receiving the acknowledgement, the time delay in transporting data from one device to another can be measured. The time delay will be considered when synchronizing the two players to play back the two separated sound tracks. In certain embodiments, if sending a packet (e.g., a packet in accordance with SNTP protocol) to a

playback device and receiving a response takes more than fifteen milliseconds, for example, the timing information contained within that packet, such as clock information, is discarded. If sending and receiving a packet is less than fifteen milliseconds, then the information from the packet is used to adjust playback, if so necessary.

[00104] Additional details of synchronizing operations of two or more independently clocked players are provided in commonly assigned US application No,: 10/816,217, filed Apr. 1, 2004, entitled "System and Method For Synchronizing Operations Among A Plurality Of Independently Clocked Digital Data Processing Devices" which is hereby incorporated by reference.

[00105] FIG. 8 shows an example configuration of a pairing amongst multiple players **802**, **804**, **806**, **808**, **810**, and **812** in a theater-like environment, in accordance to an embodiment. Player **802** may operate as a front-left channel, player **804** may operate as a center channel, player **806** may operate as a front-right channel, player **808** may operate as a subwoofer, player **810** may operate as a rear, right channel, and player **812** may operate as a rear, right channel. In this example, the players **802**, **804**, **806**, **808**, **810**, and **812** are wirelessly coupled over network **815** so as to receive and transmit data over a wireless network, and obtain power from power outlets in the wall or through some other power source (e.g., a battery). Players **802**, **804**, **806**, **808**, **810**, and **812** may be wired, if so configured in an alternate embodiment. Controller **814** may be a network-enabled device, examples of which include a smart phone, tablet computer, laptop computer, desktop computer, or a television.

[00106] In one embodiment, a designated player, such as player **804,** receives multi-channel audio content from a source **816**. Source **816** might include audio and/or video content downloaded or streamed from the Internet, a DVD or Blu-Ray player, or from some other source of audio and/or video content. Player **804** separates the multi-channel audio and sends respective audio channels to its playback owner. For example, if a particular audio channel is designated for

the front, right speaker, then that content is wirelessly directed from player **804** to player **802**, and so on. Players **802**, **804**, **806**, **808**, **810**, and **812** play the audio content synchronously, so as to create a multi-channel listening environment. Moreover, if source **816** provides video content along with audio content, then the audio content is preferably played in synchrony with the video content.

[00107] In another embodiment, each player of players **802**, **804**, **806**, **808**, **810**, and **812** may separate out its own one or more channels for playback. That is, either all audio content, or a portion thereof, is sent to each player (e.g., from source **816** or another playback device) and the player itself obtains its own data for playback.

[00108] In addition, players **802**, **804**, **806**, **808**, **810**, and **812** may be reconfigured to operate in many different configurations, such as described above. For example, players **802** and **806** may be paired to operate in stereo mode, while the other players remain in sleep mode or turned off (player **808** may remain on in any particular configuration, if so desired and configured, because it is operating as a subwoofer). In another example, players **802** and **810** may be consolidated and output left channel audio, while players **806** and **812** may be consolidated and output right channel audio. In yet another example, some of players **802**, **804**, **806**, **808**, **810**, and **812** are consolidated into a single player and paired with additional playback devices, such as in an adjacent room. In a further example, players **802**, **804**, **806**, **808**, **810**, and **812** are grouped and not paired, when the audio content is music (versus movie content, for example). These are just some configuration examples. Many other configurations are possible using the teachings described herein.

[00109] FIG. 9 shows a flowchart or process **900** of grouping a plurality of audio products to play separated sound tracks in synchronization to simulate a multi-channel listening environment. The process **900** is presented in accordance with certain embodiments and may be implemented in a module to be located in the memory **282** of FIG. 2D. To facilitate the

description of process **900**, a listening environment of stereo sound with left and right channels is described. Those skilled in the art can appreciate that the description can be equally applied to other forms of multi-channel listening environment (e.g., three, five, seven channel environments).

[00110] Typically, there is a plurality of players being controlled by one or more controllers, where these players are disposed in various locations. For example, there are five players in a house; three of them are respectively disposed in three rooms while two players are disposed in a larger room. Accordingly, these two players would be candidates to be paired to simulate a stereo listening environment, instead of just playing synchronized audio from both in a grouped fashion. In another example, there are four players in a large space or adjacent spaces, two pairs of the players may be paired to simulate a stereo listening environment, in which two players in one consolidated pair can be grouped to play back one (left) sound track and the other two in the other consolidated pair can be grouped to play back one (right) sound track.

[00111] In any case, two groups of players or two players are decided to be paired at **902**. If no players are paired, the process **900** will not be activated. It is assumed that two players from a group of players being controlled by a controller are selected to be paired at **902**. The process **900** proceeds.

[00112] At **904**, a user may decide which player is to play back which sound track. Depending on the location of the user or listener(s) with respect to the selected players, it is assumed that a player or unit A is chosen to play back a left sound track and another player or unit B is chosen to play back a right sound track. In an alternative embodiment, the players themselves (or the controller) may automatically determine which unit is configured to play the right channel and which unit is configured to play the left channel without input from the user.

[00113] According to one embodiment, a time delay in transporting data between the two units A and B is measured at **906**. This time delay may facilitate sound synchronization between

the two units as one of the units will receive a processed sound track from the other. The user may continue to operate on a controller to select a title (e.g., an audio source or an item from a playlist) for playback on the two units at **910**.

[00114] Once the title is determined at **912**, the data for the title is accessed. Depending on where the data is located, the controller may be configured to cause one of the two units to obtain or stream in the data. In one embodiment, the controller or unit A initiates a request to a remotely-networked device providing or storing the data. Assuming an authentication procedure, if any, completes successfully, the remote device starts to upload the data to the unit A. Likewise, if the data is locally stored in the unit A, the data can be accessed locally without requesting the same from the network. As the data is being received or accessed in the unit A, a processing module is activated in the unit A to process the data, essentially separating the data into two streams of sound tracks at **914**. In an alternative embodiment, each unit may receive and process the data, essentially separating the data into a stream to be played by the respective unit.

[00115] At **916**, one of the streams is uploaded from the unit A to unit B via a local network (e.g., the ad-hoc network formed by all the players being controlled by the controller). As the streams are being distributed, the two units are configured to play back the streams respectively, each reproducing the sound of a single sound track at **918**. Together, in synchrony, the two units create a stereo sound listening environment.

[00116] It should be noted that the delay time, if noticeable, may be incorporated into the unit A to delay the consumption of the stream by the delay time to synchronize with the unit B. Alternatively, a non-selected player may be used to process a streaming data of the title and configured to supply two streams to the pair of players, thus equalizing the delay time that would be otherwise experienced by the unit B.

[00117] FIGS. 10A-10F show illustrative screenshots of a controller for creating a stereo pair in accordance with certain embodiments. The screenshots are from a computing device (e.g., a

tablet computer, laptop, or desktop) used as a controller. Those skilled in the art can appreciate that FIGS. 10A-10F may be readily modified to be used in a portable device with network capability, such as, for example, iPhone or iTouch or other smart phone or other network-enabled devices. Additionally, the controller might exist as part of a player itself or directly/indirectly coupled to the player, and therefore such screenshots may be modified accordingly – such a controller need not have network capability as the player will have network connectivity.

[00118] FIG. 10A shows a graphic interface **1000** that may be displayed on a controller when a user desires to create a stereo pair with two players in a system. It is understood that the system may include two or more players. If a stereo pair is desired, such as discussed with respect to the example of FIGS. 10A-10F, then any two players (one or both of which may be a consolidated player) in the system may be paired. However, if pairing more than two players is desired, such as creating an environment which is capable of playing more than two channel audio data, then the graphic interface **1000** may include an additional option or options. For example, an option might include "Make a Movie Surround Sound Pairing," "Make a Music Surround Sound Pairing," or "Make a Dolby Pro Logic Pairing." Any descriptive language may be used to appropriately indicate to the user the type of pairing that can be created. Upon selecting an option, a setup wizard on the controller may help the user appropriately configure the system such that multi-channel discrete audio may be effectively realized by the system.

[00119] Turning back to FIG. 10A, the interface **1000** allows a user to initiate a stereo pair with a zone player named "ZPS5-Black." In certain embodiments, the system recognizes that ZPS5-Black is part of a particular zone (e.g., kitchen, family room, bedroom, and so on). The system may allow the user to pair ZPS5-Black with another player in the same zone only, or alternatively, the system may allow the user to pair ZPS5-Black with another player in a different zone (such as an adjacent zone). Pairing players in different zones may be particularly useful

when an open space is divided into two or more zones (e.g., an open space might include a kitchen and family room, for example).

[00120] Additionally, the system may be programmed such that pairing players from different zones creates another zone to reflect the players in paired mode (e.g., a single kitchen-family room zone during paired operation might originate from a kitchen zone and a family room zone during non-paired operation). In such an embodiment, a user may be able to switch between zones or dynamically create new zones.

[00121] In certain embodiments, if another similar player is available to be paired, then the screenshot of FIG. 10B may be displayed. If the user wishes to continue with creating a pair, then the user may select "OK." If not, then the user may select "Cancel." In another embodiment, a different player (e.g., a player that is not an S5) may be paired together. That is, different types of players may be paired, if the players are so designed to be paired. To accommodate the differences in player type, the equalization of one or more players may be adjusted accordingly to compensate for things like the number and size of speaker drivers used in one player versus the other player. In yet another embodiment, a list of the players in the system may be displayed (not shown), from which the user selects two or more players to make the stereo pair. The list of players may be automatically determined by the system based on a player's particular location within a home, room, or configuration with other players within a room, for example.

[00122] Turning now to FIG. 10C, in this example, it is assumed that the user may select a zone player named "ZPS5-White" to be paired with "ZPS5-Black" to create a stereo pair. If so desired, the user may select "OK" to proceed with the pairing. Otherwise, the user may select "Cancel." In certain embodiments, ZPS5-White may be in the same zone as ZPS5-Black. In other embodiments, ZPS5-White may be in a different zone as ZPS5-Black.

[00123] Upon selecting "OK" in FIG. 10C, a screenshot like that of FIG. 10D may be displayed to the user, thereby instructing the user to press the mute button (or some other

designated button) on the "LEFT" player of the stereo pair. Further, a light on the players may flash to further indicate that each of the players is a possibility for left channel pairing. Upon selection of the left player, FIG. 10E may be displayed to inform the user that a pair has been created along with a name for the pair, if so desired. Responsively, the system will play the left channel audio from the user designated player and will automatically play the right channel audio from the other player. FIG. 10F provides an example screenshot to allow the user to separate the stereo pair if so desired.

[00124] In an alternative embodiment, the creation of a stereo pair may be an option for a particular zone or a number of zones (e.g., a household of zones). For example, an option like "Create a Stereo Pair" may exist such that upon selection, a setup wizard may launch asking the user to press a flashing mute button (or some other designated button) on whichever speaker the user wanted to be the left speaker in the zone, a portion of zones, or all of the zones. In one embodiment, flashing would occur for all of the same speaker types. In another embodiment, flashing would occur for all speaker types that are capable of being paired. After choosing the left speaker, the wizard screen would ask the user to do the same for the right speaker. Preferably, only the speakers that are capable of being paired as the right speaker are flashing so as to appropriately narrow the choices for the user.

[00125] Additionally, in one embodiment and as shown in FIG. 3A or 3B, a graphic display is provided to show to the user all the players in a system and how they are grouped or named. A nickname for the stereo pair in the display **1040** may be highlighted and would be further displayed in FIG. 3A if FIG. 3A is modified after the stereo pair is complete

[00126] A similar graphic interface may be used to create a pair in an environment having more than two channels. For example, in a home theater environment, the system may list more than two separate players from which the user can create a pairing by selecting which player is to

operate as the front right, center, front left, rear right, and rear left. A subwoofer may also be added to the list, so that it can be integrated into the multi-channel pairing by the user.

[00127] As an example, similar to what is described in the various embodiments above with respect to creating a stereo pair, the system may flash an indicator light on all relevant players and a setup wizard may ask the user to select the "front-left," then the "front-right," then the "front-center," then the "rear-left," then the "rear-right," and so on until all of the players are appropriately paired. Preferably, only the speakers that are capable of being paired as the next speaker are flashing so as to appropriately narrow the choices for the user.

VII. Conclusion

[00128] The components, elements, and/or functionality of the systems discussed above may be implemented alone or in combination in various forms in hardware, firmware, and/or as a set of instructions in software, for example. Certain embodiments may be provided as a set of instructions residing on a computer-readable medium, such as a memory, hard disk, CD-ROM, DVD, and/or EPROM, for execution on a processing device, such as a controller and/or playback device.

[00129] Various inventions have been described in sufficient detail with a certain degree of particularity. It is understood to those skilled in the art that the present disclosure of embodiments has been made by way of examples only and that numerous changes in the arrangement and combination of parts may be resorted without departing from the spirit and scope of the invention as claimed. While the embodiments discussed herein may appear to include some limitations as to the presentation of the information units, in terms of the format and arrangement, the embodiments have applicability well beyond such embodiment, which can be appreciated by those skilled in the art. Accordingly, the scope of the present invention is defined by the appended claims rather than the forgoing description of embodiments.

CLAIMS

1. A playback device comprising:

a network interface configured to receive audio data over a network;

one or more speaker drivers configured to output audio based on the audio data;

one or more processors; and

tangible, non-transitory, computer readable memory comprising instructions encoded therein, wherein the instructions, when executed by the one or more processors, cause the playback device to:

receive a signal from a controller over the network, wherein the signal comprises an instruction for the playback device to pair with one or more other playback devices; and

(i) process the audio data before the playback device outputs audio from the one or more speaker drivers, (ii) determine that either (a) the playback device is not paired with the one or more other playback devices or (b) that the playback device is paired with the one or more other playback devices such that the playback device and the one or more other playback devices have different playback roles, (iii) set an equalization of the playback device by configuring the playback device to perform a first equalization of the audio data before outputting audio based on the audio data from the one or more speaker drivers when the playback device is not paired with the one or more other playback devices, and (iv) change the equalization of the playback device by configuring the playback device to perform a second equalization of the audio data before outputting audio based on the audio data from the one or more speaker drivers when the playback device is paired with the one or more other playback devices.

2. The playback device of claim 1, wherein performing the first equalization comprises utilizing at least a first one or more pass-filter parameters such that the playback device becomes configured to output at least a first range of audio frequencies based on the audio data from the one or more speaker drivers, wherein performing the second equalization comprises utilizing at least a second one or more pass-filter parameters such that the playback device becomes configured to output at least a second range of audio frequencies based on the audio data from the one or more speaker drivers, and wherein the first range of audio frequencies and the second range of audio frequencies are different.

3. The playback device of claim 1, wherein determining that the playback device is paired with the one or more other playback devices comprises determining that the playback device is paired with two or more other playback devices.

4. The playback device of claim 1, wherein, when the playback device is not paired with the one or more other playback devices, the playback device is configured to output audio comprising two channel sound via the one or more speaker drivers, and wherein, when the playback device is paired with one or more playback devices, the playback device is configured to output audio comprising no more than one channel of the two channel sound via the one or more speaker drivers.

5. The playback device of claim 1, wherein, when the playback device is not paired with the one or more other playback devices, the playback device is configured to output audio based on the audio data via the one or more speaker drivers in a stereo mode, and wherein, when the playback device is paired with the one or more other playback devices, the playback device is configured to output audio based on the audio data via the one or more speaker drivers in a theater mode.

6. The playback device of claim 1, wherein, when the playback device is not paired with the one or more other playback devices, the playback device is configured to output audio based on the audio data via the one or more speaker drivers, and wherein, when the playback device is paired with the one or more other playback devices, the playback device is configured to output audio based on the audio data via the one or more speaker drivers in a consolidated mode.

7. The playback device of claim 1, wherein the playback device further comprises a button that, when selected, configures the playback device to output audio comprising one channel of the audio data.

8. The playback device of claim 1, wherein the network is a wireless network.

9. The playback device of claim 1, wherein the one or more speaker drivers comprises a plurality of speaker drivers, and wherein the instructions, when executed by the one or more processors, further cause the playback device to:

output audio from the plurality of speaker drivers.

10. The playback device of claim 1, wherein the signal further comprises an instruction for the playback device to play back a particular channel of the audio data.

11. The playback device of claim 1, wherein the playback device is further configured to (i) separate the audio data into separate audio channels, (ii) output audio based on audio data of at least one separate audio channel from the one or more speaker drivers, and (iii) transmit audio data of at least one additional separate audio channel over the network.

12. The playback device of claim 1, wherein the playback device is further configured to (i) separate the audio data into separate audio channels, (ii) output audio based on audio data of at least one separate audio channel from the one or more speaker drivers, and (iii) transmit the audio data of the at least one separate audio channel and audio data of at least one additional separate audio channel over the network.

13. The playback device of claim 1, wherein the playback device is further configured to (i) separate the audio data into separate audio channels, (ii) output audio based on audio data of at least one separate audio channel from the one or more speaker drivers, and (iii) transmit the audio data over the network.

14. The playback device of claim 1, wherein the instructions, when executed by the one or more processors, further cause the playback device to:

receive another signal from the controller over the network, wherein the other signal comprises an instruction for the playback device to separate the pair with the one or more other playback devices.

15. The playback device of claim 1, wherein the instructions, when executed by the one or more processors, further cause the playback device to:

detect a predefined event; and

interpret the detected predefined event as an instruction for the playback device to pair with the one or more other playback devices, such that pairing occurs when the predefined event is detected.

16. The playback device of claim 1, wherein the instructions, when executed by the one or more processors, further cause the playback device to:

receive another signal from the controller over the network, wherein the other signal comprises an instruction for the playback device to pair with a different one or more other playback devices.

17. A method performed by a playback device, the method comprising:

receiving a signal from a controller over a network, wherein the signal comprises an instruction for the playback device to pair with one or more other playback devices;

receiving audio data over the network;

processing the audio data before the playback device outputs audio from one or more speaker drivers based on the audio data;

when the playback device is not paired with the one or more other playback devices, setting an equalization of the playback device by configuring the playback device to perform a first equalization of the audio data before outputting audio based on the audio data from the one or more speaker drivers; and

when the playback device is paired with the one or more other playback devices such that the playback device and the one or more other playback devices have different playback roles, changing the equalization of the playback device by configuring the playback device to perform a second equalization of the audio data before outputting audio based on the audio data from the one or more speaker drivers.

18. The method of claim 17, wherein performing the first equalization comprises utilizing at least a first one or more pass-filter parameters such that the playback device becomes

configured to output at least a first range of audio frequencies based on the audio data from the one or more speaker drivers, wherein performing the second equalization comprises utilizing at least a second one or more pass-filter parameters such that the playback device becomes configured to output at least a second range of audio frequencies based on the audio data from the one or more speaker drivers, and wherein the first range of audio frequencies and the second range of audio frequencies are different.

19. Tangible, non-transitory, computer readable memory comprising instructions encoded therein, wherein the instructions, when executed by one or more processors, cause a playback device to:

receive a signal from a controller over a network, wherein the signal comprises an instruction for the playback device to pair with one or more other playback devices; receive audio data over the network;

process the audio data before the playback device outputs audio from one or more speaker drivers based on the audio data;

when the playback device is not paired with the one or more other playback devices, set an equalization of the playback device by configuring the playback device to perform a first equalization of the audio data before outputting audio based on the audio data from the one or more speaker drivers; and

when the playback device is paired with the one or more other playback devices such that the playback device and the one or more other playback devices have different playback roles, change the equalization of the playback device by configuring the playback device to perform a second equalization of the audio data before outputting audio based on the audio data from the one or more speaker drivers.

20. The tangible, non-transitory, computer readable memory of claim 19, wherein performing the first equalization comprises utilizing at least a first one or more pass-filter parameters such that the playback device becomes configured to output at least a first range of audio frequencies based on the audio data from the one or more speaker drivers, wherein performing the second equalization comprises utilizing at least a second one or more pass-filter parameters such that the playback device becomes configured to output at least a second range of

audio frequencies based on the audio data from the one or more speaker drivers, and wherein the first range of audio frequencies and the second range of audio frequencies are different.

Abstract

Technology for grouping, consolidating, and pairing individual playback devices with network capability (players) to stimulate a multi-channel listening environment is disclosed. An example method includes receiving an audio signal containing a range of audio frequencies; amplifying, according to a gain parameter, the audio signal to be reproduced by at least one speaker. The example method includes automatically increasing the gain parameter to a higher gain parameter responsive to a determination that no more than a subset of the range of audio frequencies is to be reproduced by the at least one speaker. The example method includes amplifying, according to the higher gain parameter, the audio signal containing no more than the subset of the range of audio frequencies to be reproduced by the at least one speaker.

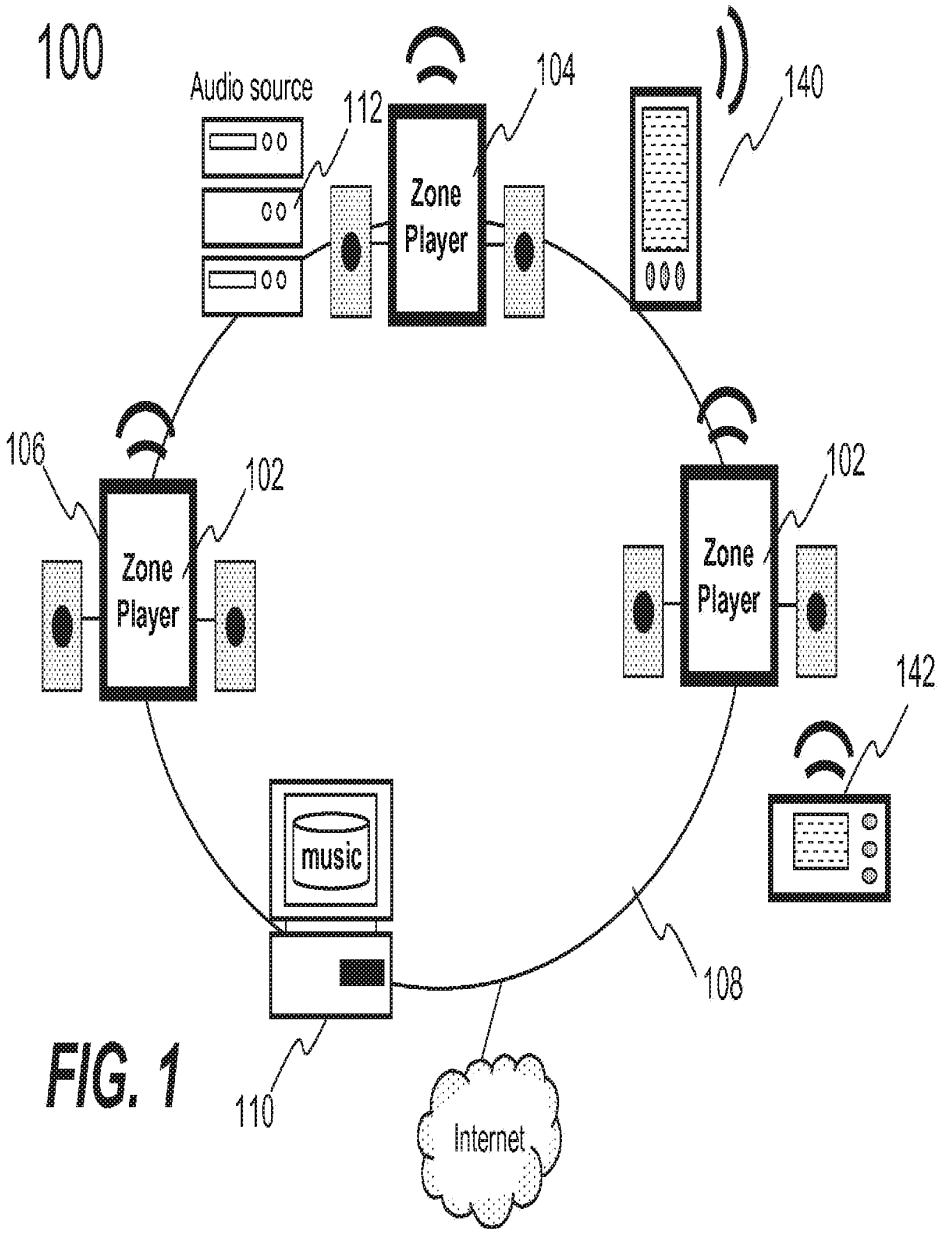

100
Audio source
112
104
Zone Player
140
106
102
Zone Player
102
Zone Player
142
music
108
110
Internet

FIG. 1

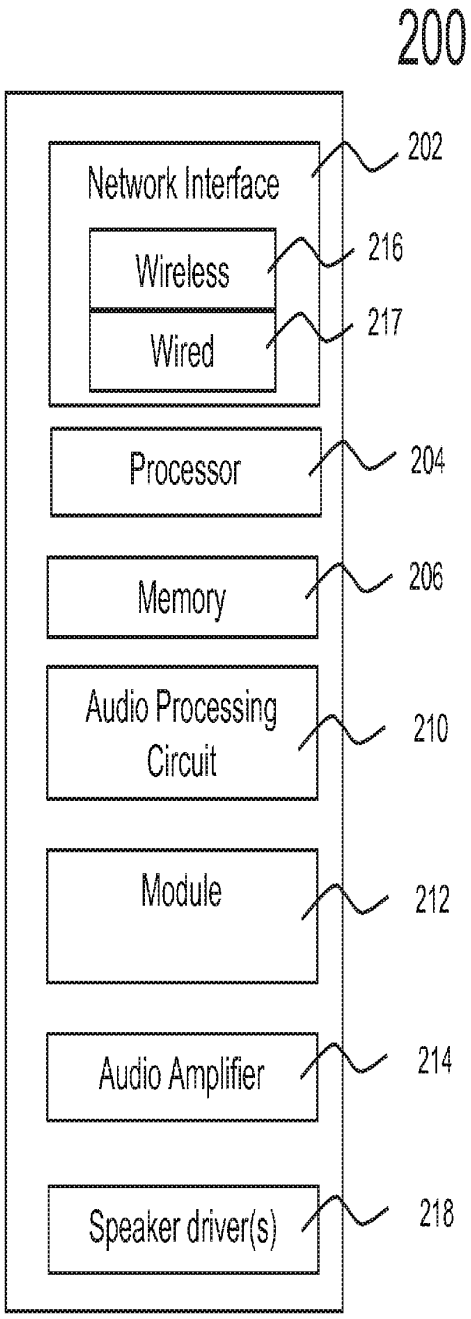

200
Network Interface
202
Wireless
216
Wired
217
Processor
204
Memory
206
Audio Processing Circuit
210
Module
212
Audio Amplifier
214
Speaker driver(s)
218

FIG. 2A

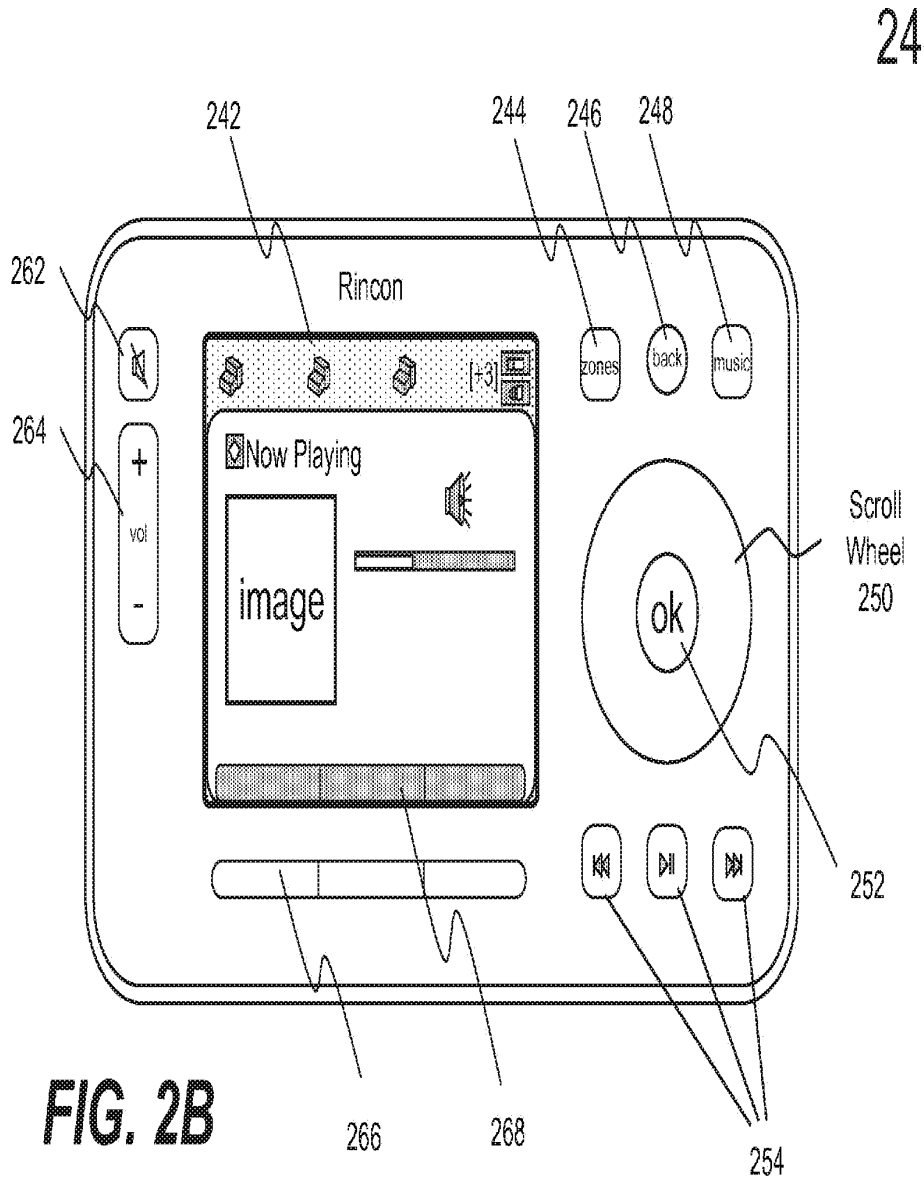

240
242
244
246
248
262
264
Rincon
zones
back
music
Now Playing
image
vol
+
-
ok
Scroll
Wheel
250
252
254
266
268

FIG. 2B

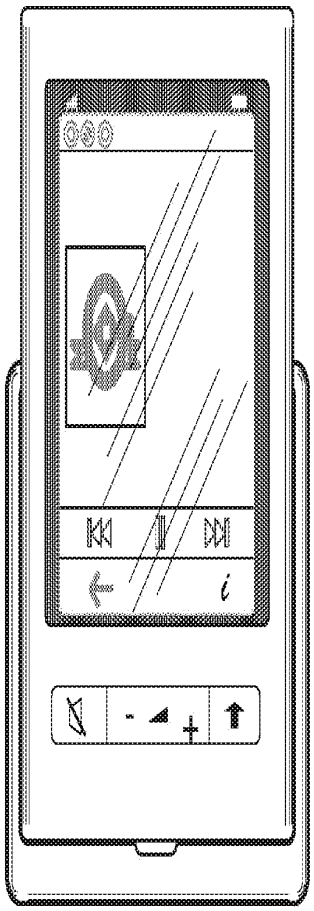


FIG. 2C

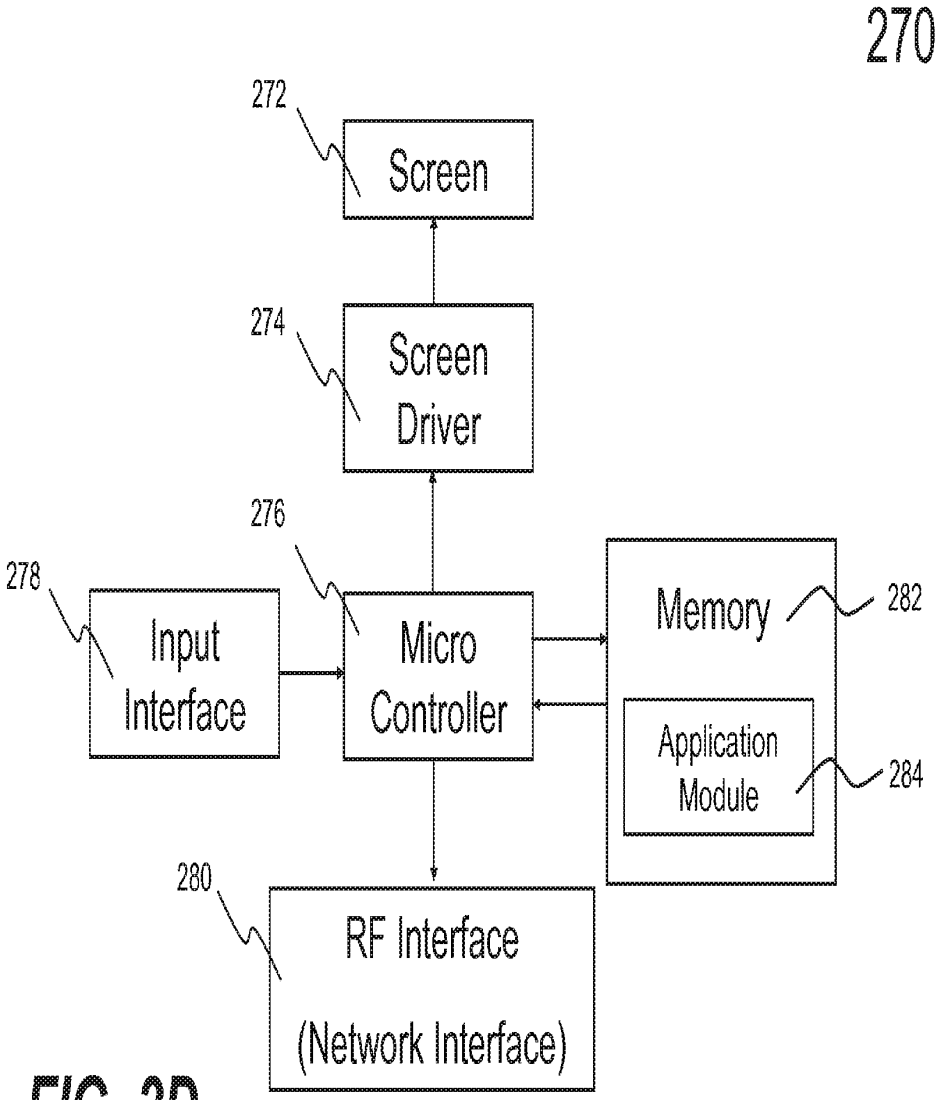

270
272
Screen
274
Screen Driver
276
278
Input Interface
Micro Controller
Memory
282
Application Module
284
280
RF Interface
(Network Interface)

FIG. 2D

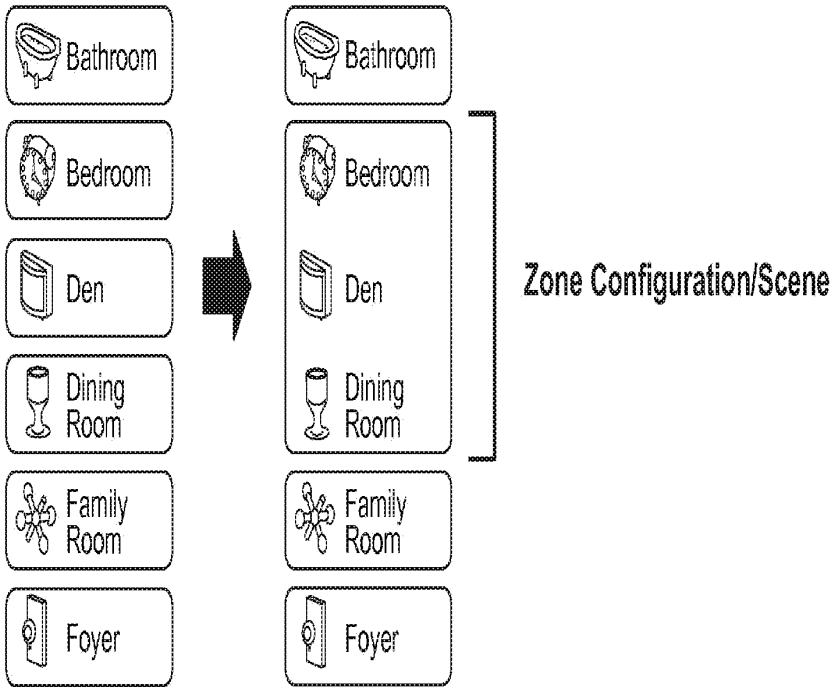

Bathroom
Bedroom
Den
Dining Room
Family Room
Foyer
Bathroom
Bedroom
Den
Dining Room
Family Room
Foyer
Zone Configuration/Scene

FIG. 3A

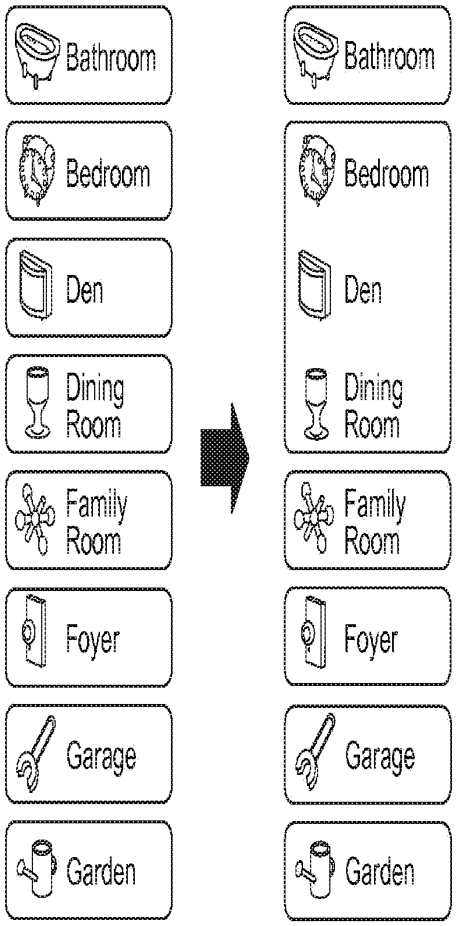

Bathroom
Bedroom
Den
Dining Room
Family Room
Foyer
Garage
Garden
Bathroom
Bedroom
Den
Dining Room
Family Room
Foyer
Garage
Garden

FIG. 3B

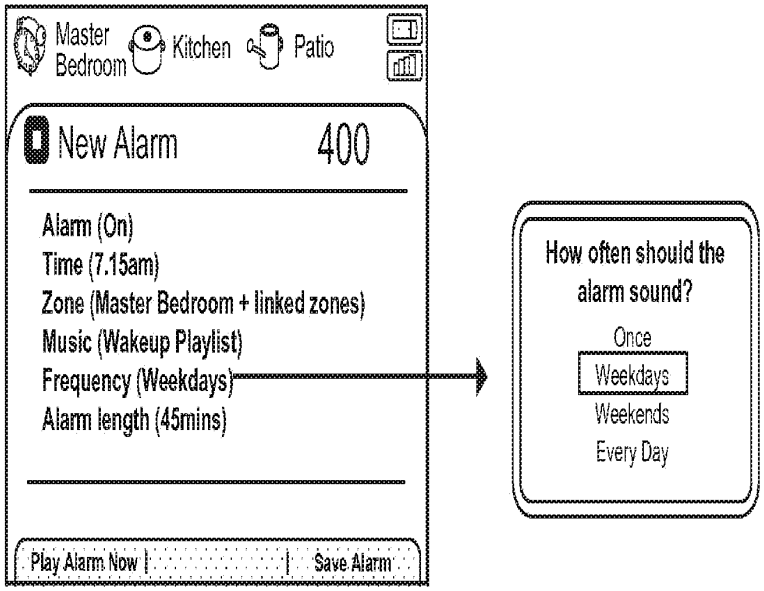

Master Bedroom
Kitchen
Patio
New Alarm
400
Alarm (On)
Time (7.15am)
Zone (Master Bedroom + linked zones)
Music (Wakeup Playlist)
Frequency (Weekdays)
Alarm length (45mins)
Play Alarm Now
Save Alarm
How often should the alarm sound?
Once
Weekdays
Weekends
Every Day

FIG. 4

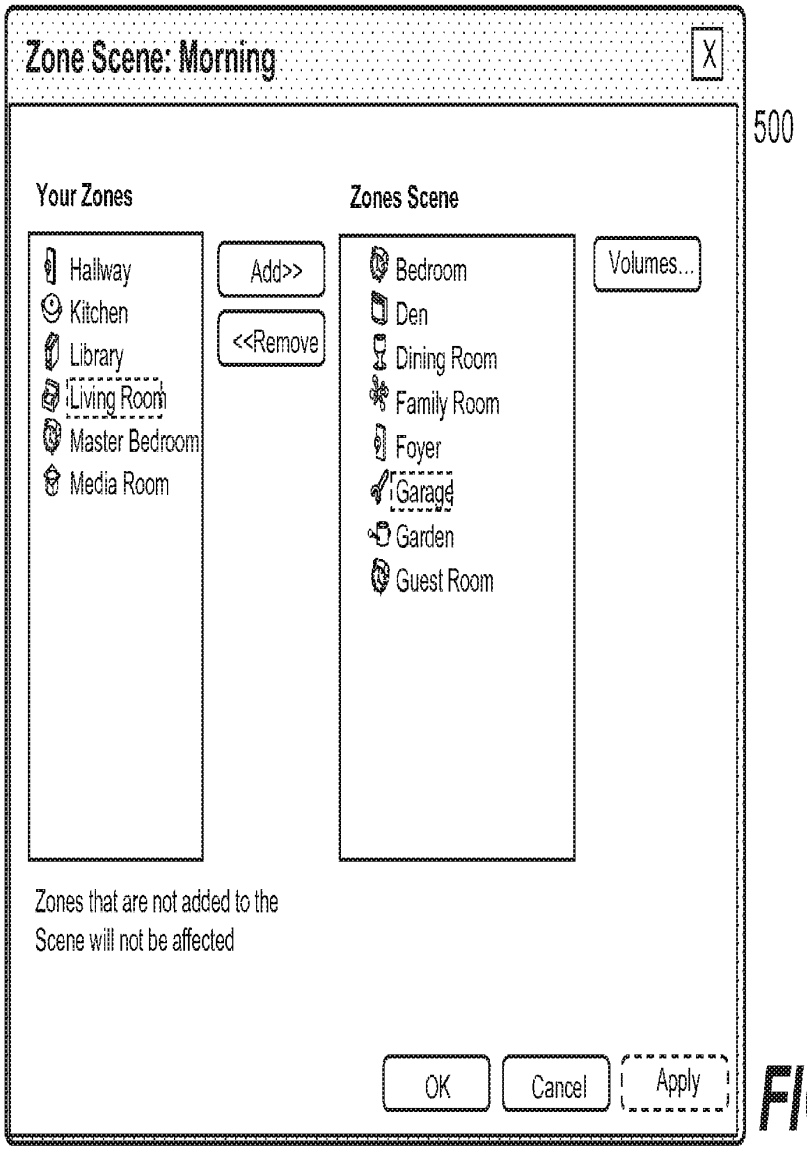

Zone Scene: Morning
X
500
Your Zones
Zones Scene
Hallway
Kitchen
Library
Living Room
Master Bedroom
Media Room
Add>>
<<Remove
Bedroom
Den
Dining Room
Family Room
Foyer
Garage
Garden
Guest Room
Volumes...
Zones that are not added to the Scene will not be affected
OK
Cancel
Apply

FIG. 5A

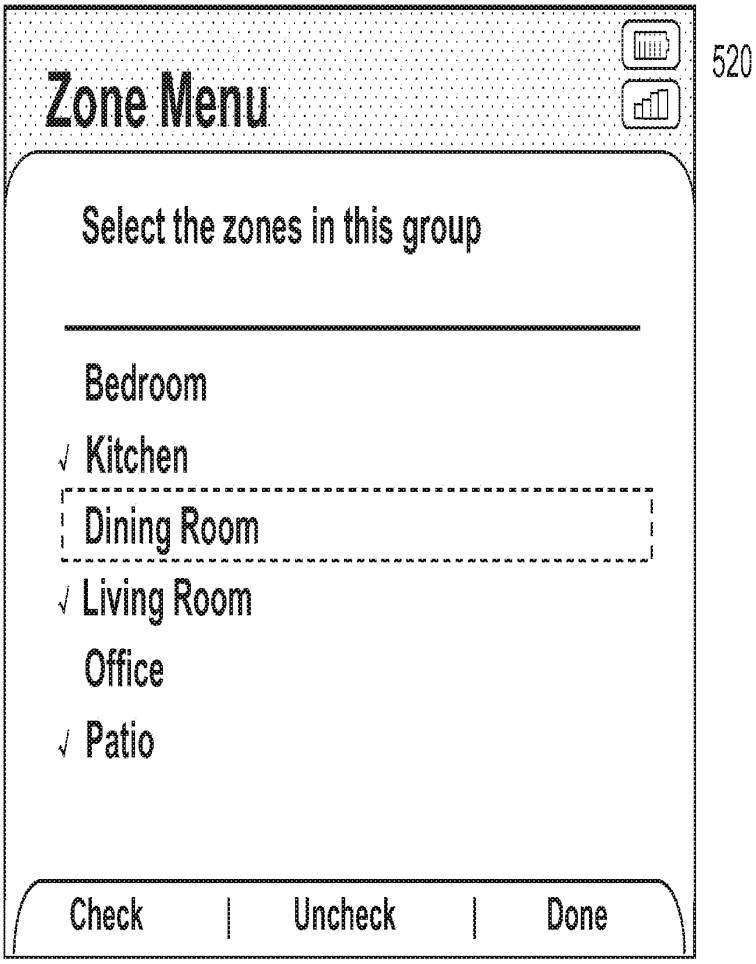

Zone Menu
520
Select the zones in this group
Bedroom
√ Kitchen
Dining Room
√ Living Room
Office
√ Patio
Check
Uncheck
Done

FIG. 5B

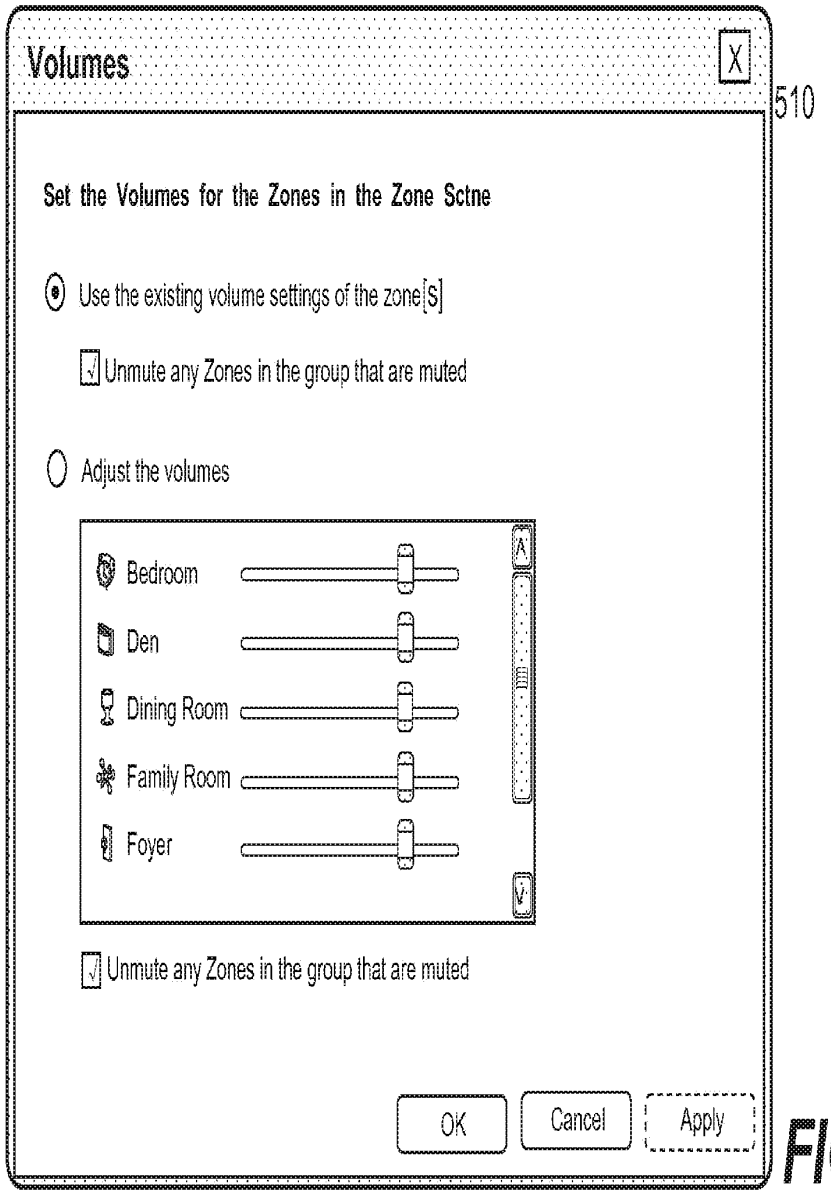

Volumes
X
510
Set the Volumes for the Zones in the Zone Sctne
Use the existing volume settings of the zone[S]
Unmute any Zones in the group that are muted
Adjust the volumes
Bedroom
Den
Dining Room
Family Room
Foyer
Unmute any Zones in the group that are muted
OK
Cancel
Apply

FIG. 5C

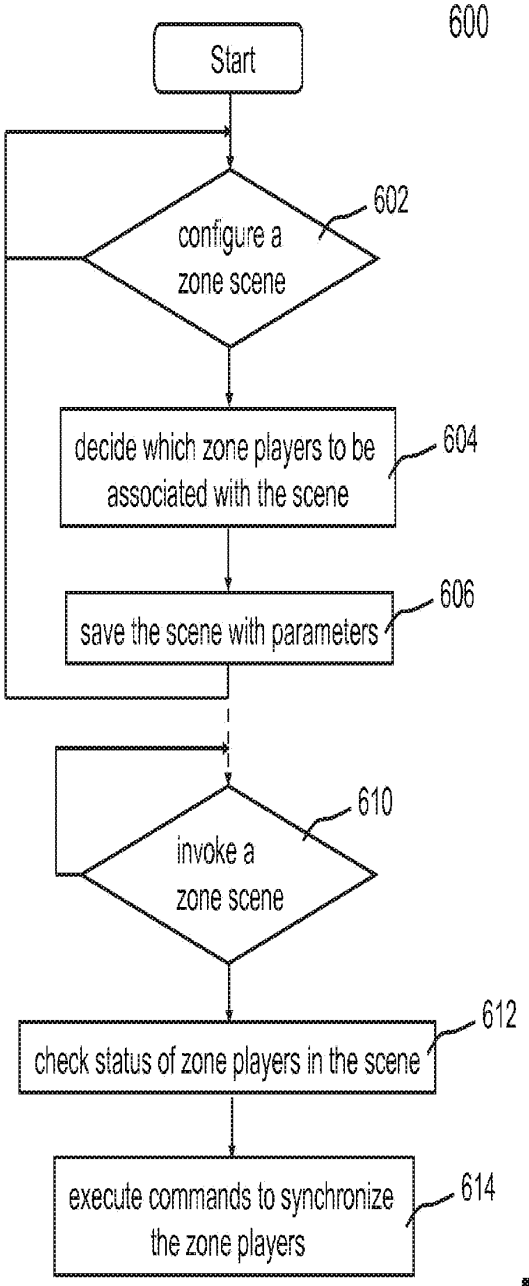

600
Start
602
configure a zone scene
decide which zone players to be associated with the scene
604
save the scene with parameters
606
610
invoke a zone scene
612
check status of zone players in the scene
execute commands to synchronize the zone players
614

FIG. 6

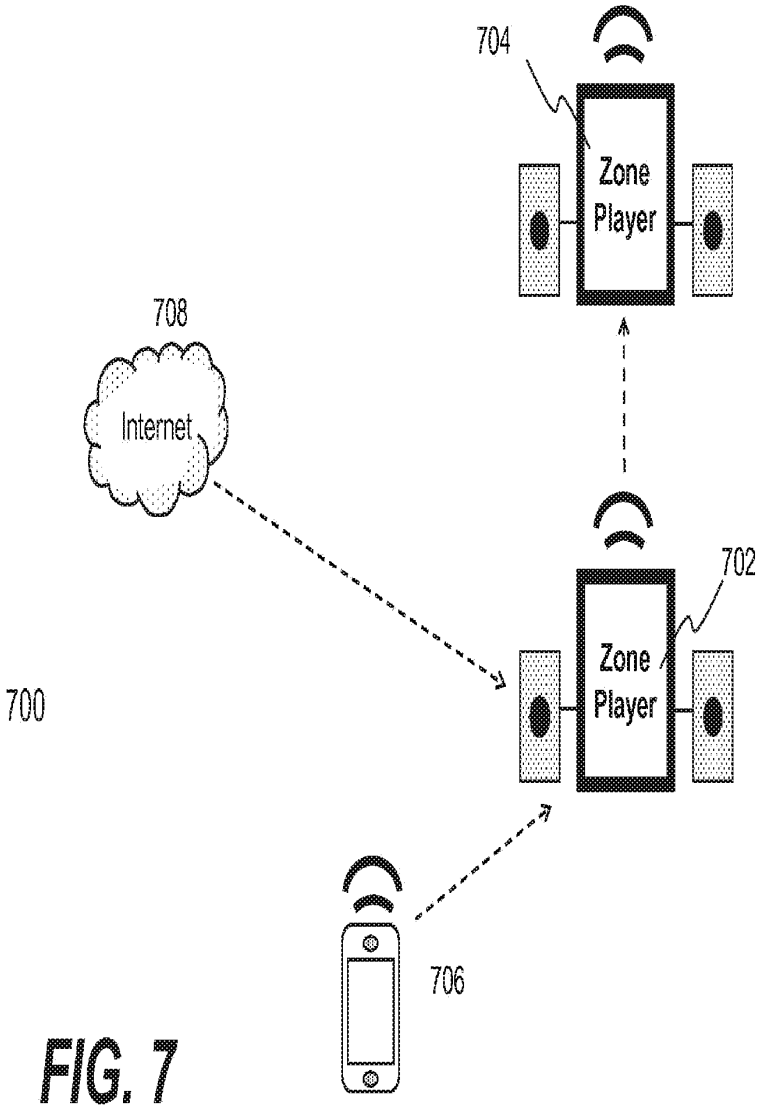


FIG. 7

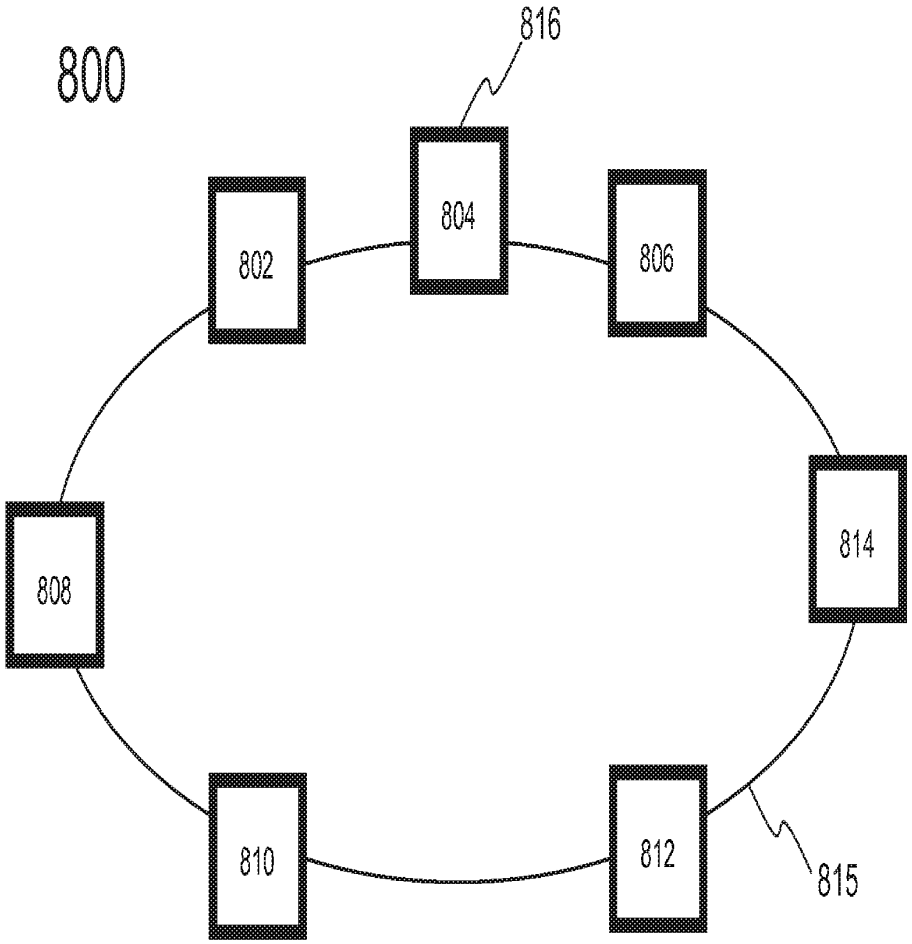


FIG. 8

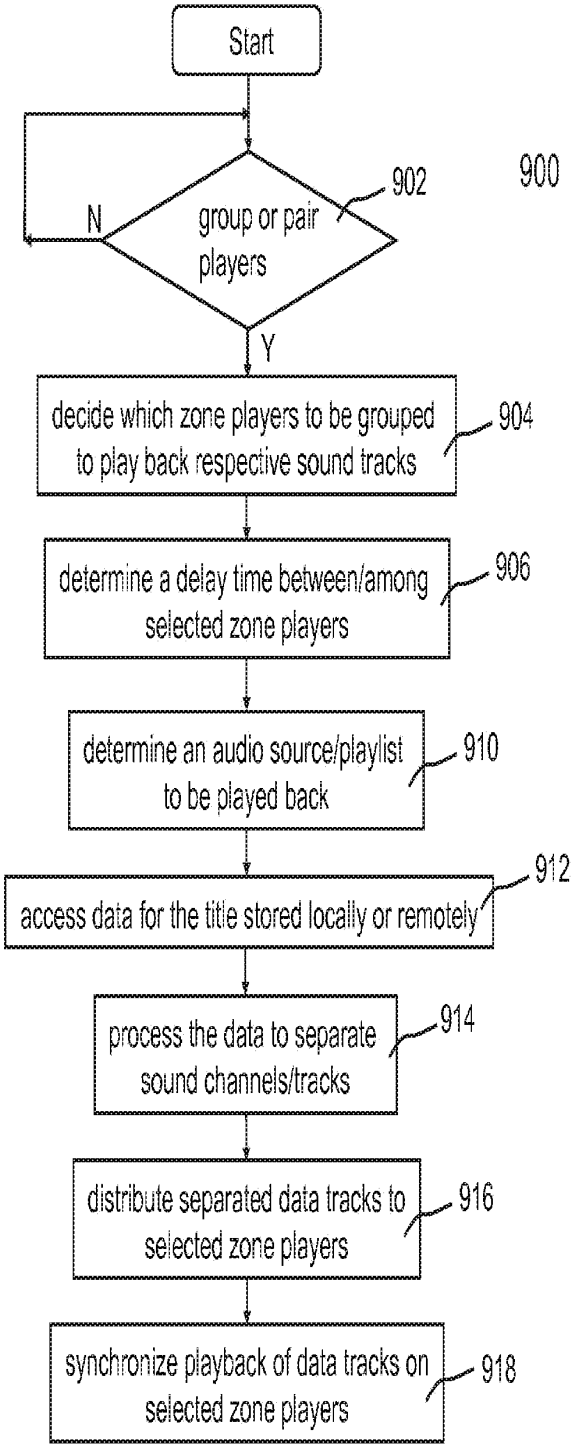

Start
group or pair players
902
900
N
Y
decide which zone players to be grouped to play back respective sound tracks
904
determine a delay time between/among selected zone players
906
determine an audio source/playlist to be played back
910
access data for the title stored locally or remotely
912
process the data to separate sound channels/tracks
914
distribute separated data tracks to selected zone players
916
synchronize playback of data tracks on selected zone players
918

FIG. 9

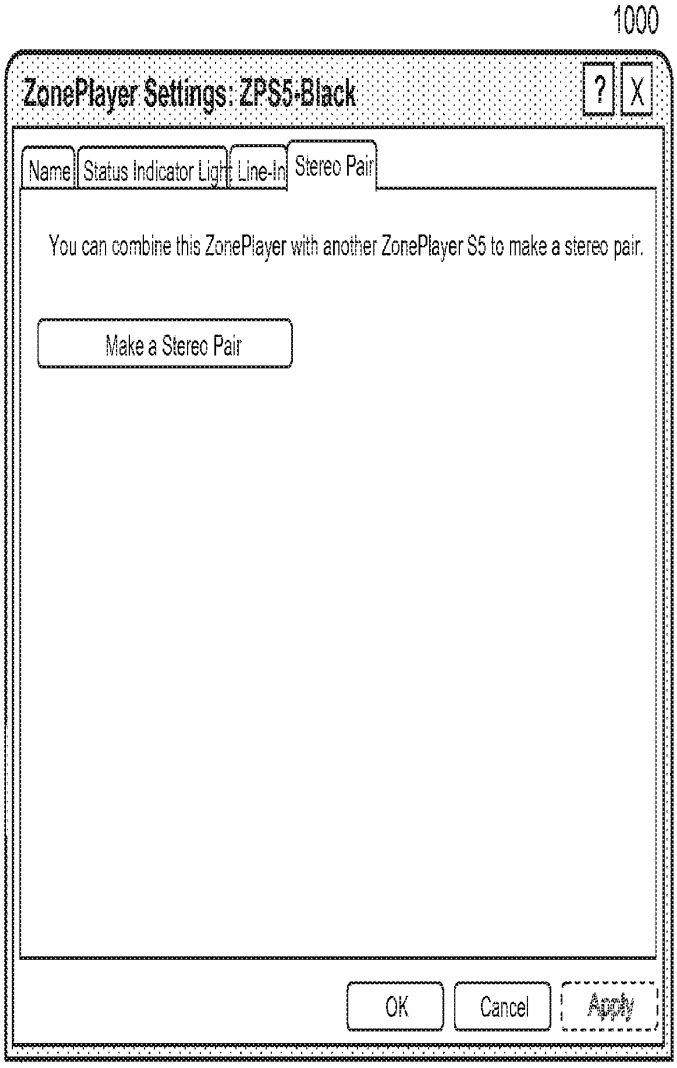

1000
ZonePlayer Settings: ZPS5-Black
?
X
Name
Status Indicator Light
Line-In
Stereo Pair
You can combine this ZonePlayer with another ZonePlayer S5 to make a stereo pair.
Make a Stereo Pair
OK
Cancel
Apply

FIG. 10A

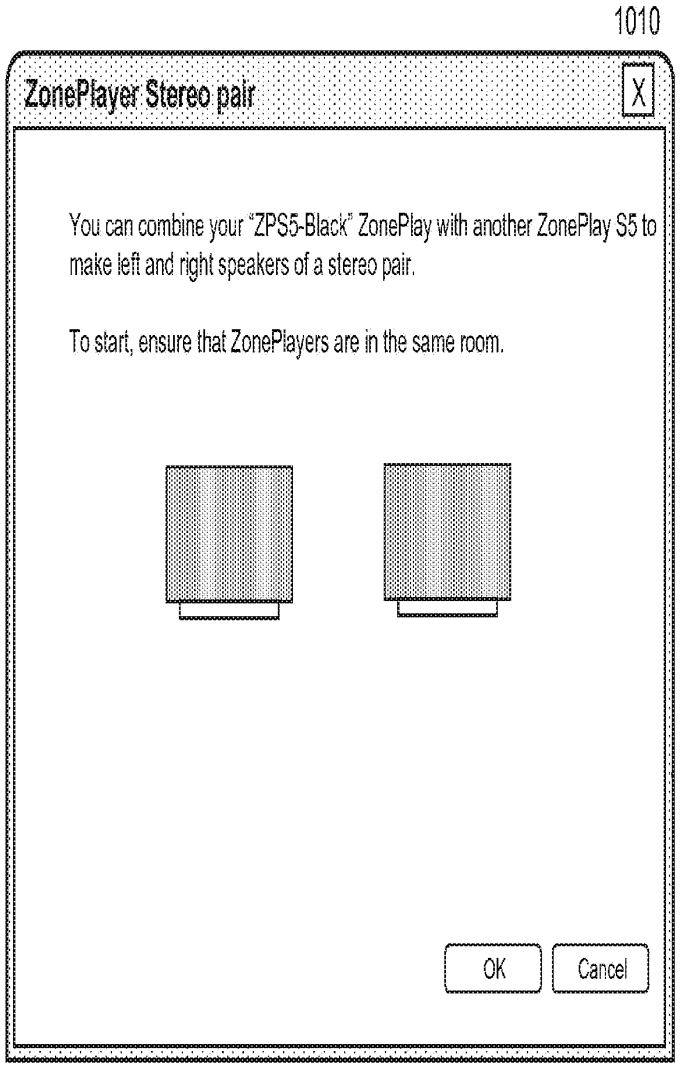

1010
ZonePlayer Stereo pair
X
You can combine your "ZPS5-Black" ZonePlay with another ZonePlay S5 to make left and right speakers of a stereo pair.
To start, ensure that ZonePlayers are in the same room.
OK
Cancel

FIG. 10B

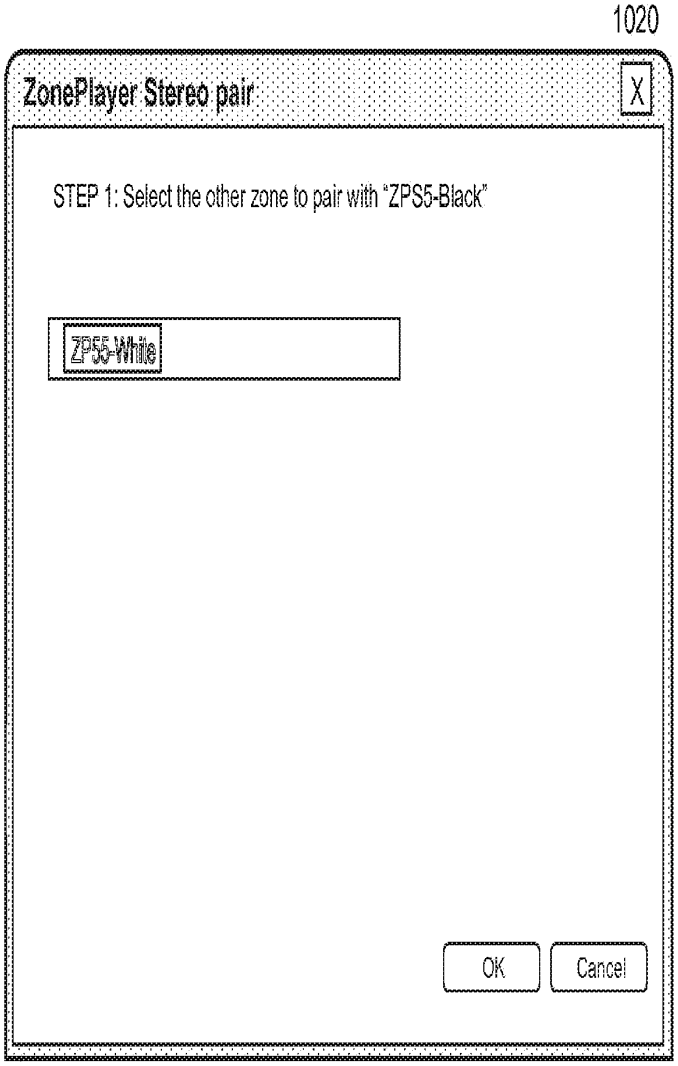

1020
ZonePlayer Stereo pair
X
STEP 1: Select the other zone to pair with "ZPS5-Black"
ZP55-White
OK
Cancel

FIG. 10C

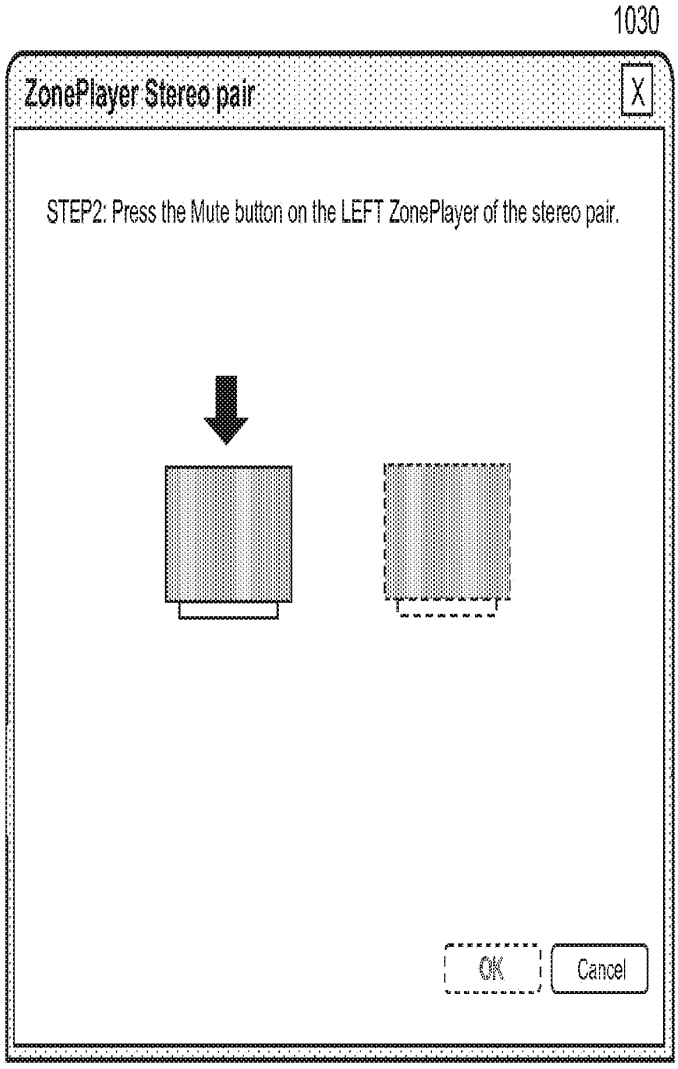

1030
ZonePlayer Stereo pair
X
STEP2: Press the Mute button on the LEFT ZonePlayer of the stereo pair.
OK
Cancel

FIG. 10D

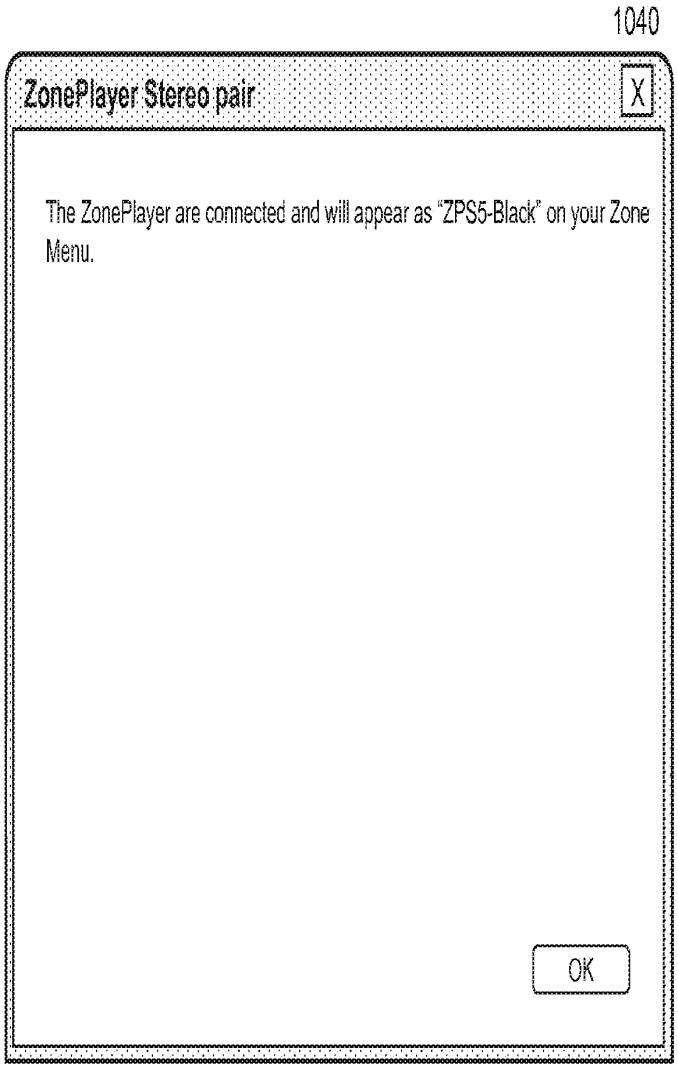

1040
ZonePlayer Stereo pair
X
The ZonePlayer are connected and will appear as "ZPS5-Black" on your Zone Menu.
OK

FIG. 10E

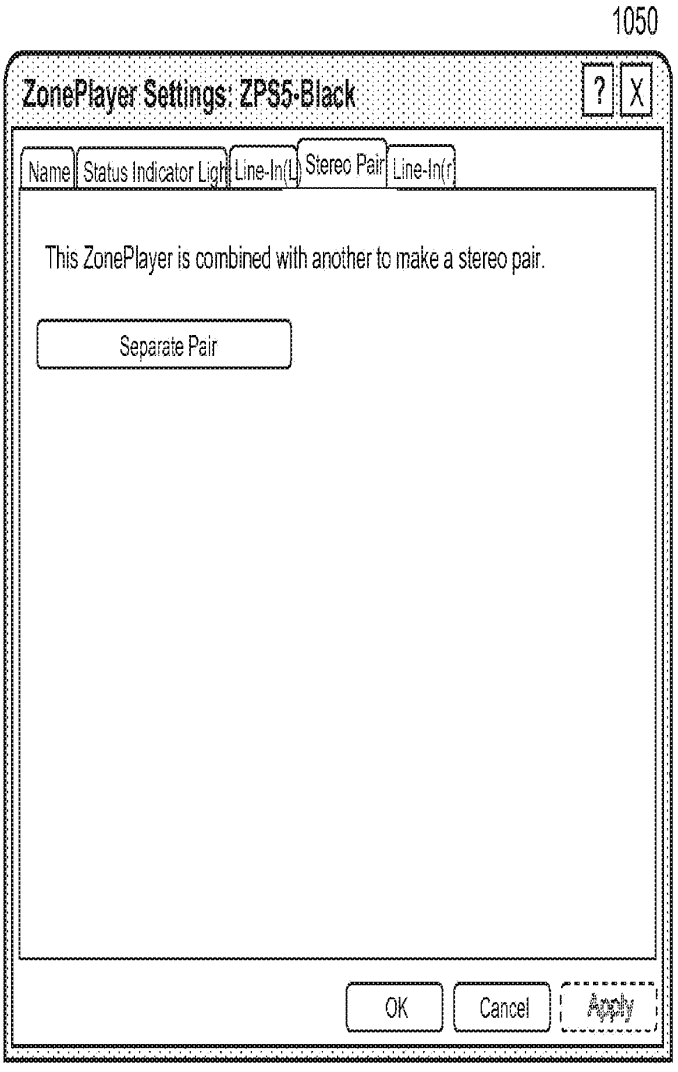

1050
ZonePlayer Settings: ZPS5-Black
?
X
Name
Status Indicator Ligh
Line-In(L)
Stereo Pair
Line-In(r
This ZonePlayer is combined with another to make a stereo pair.
Separate Pair
OK
Cancel
Apply

FIG. 10F

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	Multi-Channel Pairing in a Media System

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/299,847

filed on June 9, 2014.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

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LEGAL NAME OF INVENTOR

Inventor: Robert A. Lambourne Date (Optional): Sep 10, 2014

Signature: Robert A Lambourne (Sep 10, 2014)

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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LEGAL NAME OF INVENTOR

Inventor: Christopher Kallai Date (Optional): Sep 10, 2014

Signature: Chris kallai (Sep 10, 2014)

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LEGAL NAME OF INVENTOR

Inventor: Mark Triplett Date (Optional): Sep 10, 2014

Signature: Mark Triplett
Mark Triplett (Sep 10, 2014)

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LEGAL NAME OF INVENTOR

Inventor: Robert Reimann Date (Optional): Sep 15, 2014

Signature: Robert Reimann
Robert Reimann (Sep 15, 2014)

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/083,499 filed on April 8, 2011.

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LEGAL NAME OF INVENTOR

Inventor: Michael Darrell Andrew Ericson Date (Optional): 5/23/13

Signature: [signature]

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