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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	01/21/2020	10541883	05-0601-CON0319A	7686

135176 7590 01/01/2020

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor *SW*
Chicago, IL 60661

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is Oday(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

SONOS, INC., Santa Barbara, CA;
Nicholas A.J. Millington, Santa Barbara, CA;
Paul V. Hainsworth, Foxboro, MA;

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A	7686

135176 7590 12/05/2019

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor *SW*
Chicago, IL 60661

EXAMINER
MADAMBA. GLENFORD J

ART UNIT	PAPER NUMBER
2451	

NOTIFICATION DATE	DELIVERY MODE
12/05/2019	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ls3_docketing@cardinal-ip.com
york@ls3ip.com

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR/ PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
16/298,515	03/11/2019	Millington et al.	05-0601-CON0319A

LS3 Sonos Lee Sullivan Shea & Smith LLP
656 W. Randolph St Floor 5W
Chicago, IL 60661

EXAMINER	
GLENFORD J MADAMBA	
ART UNIT	PAPER
2451	20191202

DATE MAILED: _____

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This communication is being sent out to indicate that the reference(s) included in IDS filed /dated November 18, 2019 has / have been considered and/or initialed by the Office.

/GLENFORD J MADAMBA/
Primary Examiner, Art Unit 2451

PTO-90C (Rev.04-03)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	Glenford J. Madamba
Attorney Docket Number	05-0601-CON0319A

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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
	1	None				

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	1	None						

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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.	T[5]

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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
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	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	05-0601-CON0319A

	1	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' First Amended Answer and Counterclaims to Plaintiff's Complaint, filed November 14, 2019, 66 pages.	

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EXAMINER SIGNATURE

Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	12/02/2019

*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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	05-0601-CON0319A

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)	2019-11-18
Name/Print	Brandon J. Kennedy	Registration Number	67,894

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.

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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.

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.

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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Document Code:WFEE

User :C46472

Sale Accounting Date:11/19/2019

Sale Item Reference Number	Effective Date
16298515	11/18/2019

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I2019AIA44080665	1501	UTILITY APPL ISSUE FEE	$1,000.00	Salea

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 05-0601-CON0319A)

In re Application of:	)	
	)	Confirmation No.: 7686
Sonos, Inc.	)	
	)	Group Art Unit: 2451
Serial No.: 16/298,515	)	
	)	Examiner: Madamba, Glenford J.
Filed: March 11, 2019	)	
	)	
Title: PLAYBACK DEVICE CONNECTION	)	
	)	

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

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Applicant thanks Examiner Madamba for the thorough examination and for recognizing the allowability of the subject matter of the claims.

Applicant respectfully submits that the Reasons for Allowance may not take into account the entirety of the Applicant's claimed invention as reflected in the claims, the specification, and the prosecution history of the application. Applicant believes that the claims, specification, and prosecution history in their entirety provide an adequate basis for allowability of the claims.

The Applicant also notes that there are additional reasons that one or more of the claims are allowable that have not been specifically included in the Reasons for Allowance. The Applicant respectfully submits that, notwithstanding the Reasons for Allowance, it is believed that each of the allowed claims is patentable in its own right, for other reasons raised during prosecution and/or explained in the Specification of the present application.

For example, while the Reasons for Allowance focus on certain aspects of the independent claims, there are many aspects of the independent claims that distinguish the allowed claims from the cited art of record. All of these distinctions, made apparent in the prosecution history of the present application, should be considered when evaluating the allowability of the claims.

To the extent that specific parts of the Examiner's Statement of Reasons for Allowance or other statements in the Notice of Allowance may pertain to features appearing in some but not all claims, Applicant respectfully submits that the Examiner has thoroughly examined the claims, recognized the features appearing or not appearing in each of the claims, and properly found each of the claims to be allowable. To the extent that the Examiner has paraphrased claim features, Applicant respectfully submits that the claims have been construed in view of their language in light of the specification and not limited by any of the Examiner's statements or by the recitation therein of any specific claim features.

Respectfully submitted,

Date: November 18, 2019 By: /Brandon J. Kennedy/
Brandon J. Kennedy
Registration No. 67,894

Document Description: Issue Fee Payment (PTO-85B)

Issue Fee Transmittal Form

Application Number	Filing Date	First Named Inventor	Atty. Docket No.	Confirmation No.
16298515	11-Mar-2019	Nicholas Millington	05-0601-CON0319A	7686

TITLE OF INVENTION :

PLAYBACK DEVICE CONNECTION

Entity Status	Application Type	Art Unit	Class - Subclass	EXAMINER
Regular Undiscounted	Utility under 35 USC 111(a)	2451	222000	GLENFORD MADAMBA

Issue Fee Due	Publication Due	Total Fee(s) Due	Date Due	Prev. Paid Fee
$1000	$0	$1000	18-Feb-2020	$1000

1.Change of Correspondence Address and/or Indication Of Fee Address (37 CFR 1.33 & 1.363)

Current Correspondence Address:	Current Indicated Fee Address :
135176 LS3 Sonos Lee Sullivan Shea & Smith LLP 656 W. Randolph St. Floor 5W Chicago IL 60661 UNITED STATES 312-754-9602 ls3_docketing@cardinal-ip.com	LS3 Sonos Lee Sullivan Shea & Smith LLP 656 W. Randolph St. Floor 5W Chicago IL 60661 UNITED STATES 312-754-9602 ls3_docketing@cardinal-ip.com
☐ Change of correspondence address requested, system generated AIA/122-EFS form attached	☐ Fee Address indication requested, system generated SB/47-EFS form attached

2.Entity Status

Change in Entity Status

○ Applicant certifying micro entity status; system generated Micro Entity certification form attached. See 37 CFR 1.29.
Note: Absent a valid certification of micro entity status, issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment. If this box is checked, you will be prompted to choose a micro entity status on the gross income basis (37 CFR 1.29(a)) or the institution of higher education basis (37 CFR 1.29(d)), and make the applicable certification online.

○ Applicant asserting small entity status. See 37 CFR 1.27.
Note: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

◉ Applicant changing to regular undiscounted fee status.
Note: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

Document Description: Issue Fee Payment (PTO-85B)

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☐ Publication Fee	☐ The Director is hereby authorized to apply my previously paid issue fee to the current fee due and to charge deficient fees to Deposit Account Number _____
☐ Advance Order - # of copies _____	☒ If **in addition to** the payment of the issue fee amount submitted with this form, there are any discrepancies in any amount(s) due, the Director is authorized to charge any deficiency or credit any overpayment, to Deposit Account Number 506632 . The **issue fee must be submitted** with this form. **If payment of the issue fee does not accompany this form, checking this box and providing a deposit account number will NOT be effective to satisfy full payment of the fee(s) due.**

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5.Assignee Name(s) and Residence Data To Be Printed

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Name	City	State	Country	Category
Sonos, Inc.	Santa Barbara	CALIFORNIA	united states	corporation

6.Signature

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 has filed and has been granted power of attorney in this application. I also certify that this Fee(s) Transmittal form is being transmitted to the USPTO via EFS-WEB on the date indicated below.

Signature	/Brandon J. Kennedy/	**Date**	11-18-2019
Name	Brandon Jacob Kennedy	**Registration Number**	67894

Electronic Acknowledgement Receipt	
EFS ID:	37778615
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	PLAYBACK DEVICE CONNECTION
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	18-NOV-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:45:01
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	Amendment after Notice of Allowance (Rule 312)	05-0601-CON0319A_Comments_on_Statement.pdf	67402 c45c48f66f08e075c3375743c1702394efaaa3f1	no	2
Warnings:					

Information:					
2	Issue Fee Payment (PTO-85B)	Web85b.pdf	46138 f0f20f6da592f35e09258744fdde25aa8d35ef92	no	2
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			Total Files Size (in bytes):	113540	

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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.

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Doc Code: IFEE PTOL/85B-EFS

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Issue Fee Transmittal Form

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OPAP
NOV 19 2019
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TITLE OF INVENTION :

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Signature	/Brandon J. Kennedy/	**Date**	11-18-2019
Name	Brandon Jacob Kennedy	**Registration Number**	67894

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

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Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	Glenford J. Madamba
Attorney Docket Number	05-0601-CON0319A

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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.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	05-0601-CON0319A

	1	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' First Amended Answer and Counterclaims to Plaintiff's Complaint, filed November 14, 2019, 66 pages.

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	05-0601-CON0319A

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)	2019-11-18
Name/Print	Brandon J. Kennedy	Registration Number	67,894

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.**

Privacy Act Statement

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:

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.

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.

Electronic Patent Application Fee Transmittal				
Application Number:	16298515			
Filing Date:	11-Mar-2019			
Title of Invention:	PLAYBACK DEVICE CONNECTION			
First Named Inventor/Applicant Name:	Nicholas A.J. Millington			
Filer:	Brandon Jacob Kennedy/Jaden Knosher			
Attorney Docket Number:	05-0601-CON0319A			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	**Fee Code**	**Quantity**	**Amount**	**Sub-Total in USD($)**
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
		Total in USD ($)		**240**

Electronic Acknowledgement Receipt	
EFS ID:	37781766
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	PLAYBACK DEVICE CONNECTION
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	18-NOV-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:41:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$240
RAM confirmation Number	E2019AHH42225011
Deposit Account	506632
Authorized User	Brandon Kennedy
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	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_0_IDS_20191118151657.pdf	1053244 eed4da93bfe3f54c4968263b4b2196f06691317b	no	4
Warnings:					
Information:					
2	Non Patent Literature	Bluesound_First_Amended_Answer.pdf	1317454 9ebf190de9e7198eb282fa710e55437a5f286ffb	no	66
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30446 d1fdb1a87ca10190b427e2a942bbc527daba8a7d	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2401144		

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

135176 7590 11/15/2019

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

EXAMINER
MADAMBA, GLENFORD J

ART UNIT	PAPER NUMBER
2451	

DATE MAILED: 11/15/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A	7686

TITLE OF INVENTION: PLAYBACK DEVICE CONNECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$1000.00	$0	02/18/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PTOL-85 (Rev. 02/11)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

135176 7590 11/15/2019

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A	7686

TITLE OF INVENTION: PLAYBACK DEVICE CONNECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$1000.00	$0	02/18/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
MADAMBA, GLENFORD J	2451	709-222000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

LINKPLAY EXHIBIT 1002
Page 26 of 862

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A	7686

135176 7590 11/15/2019

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

EXAMINER	
MADAMBA, GLENFORD J	
ART UNIT	PAPER NUMBER
2451	

DATE MAILED: 11/15/2019

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

Privacy Act Statement

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:

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 disclosure of these records is required by the Freedom of Information Act.
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 inspection or an issued patent.
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.

Notice of Allowability	Application No. 16/298,515	Applicant(s) Millington et al.	
	Examiner GLENFORD J MADAMBA	Art Unit 2451	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 28 October 2019.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 1-20 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/GLENFORD J MADAMBA/
Primary Examiner, Art Unit 2451

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's claim amendments and IDS submission dated October 28, 2019 has been entered.

Allowable Subject Matter

1. 1. The numbering of original claims 1-20 is maintained. No claims have been canceled, and no new claims have been added.

2. The following is an examiner's statement of reasons for allowance:

The Office has considered Applicant's IDS references filed post-allowance on 10/28/2019, and maintains the allowability of the application as none of the references of the IDS include teachings or disclosures that fully disclose the previously allowed claims and/or necessitate withdrawal of the previous allowance of the application. No other pertinent candidate prior art has been identified to fully and reasonably disclose the claims, either individually or in combination, and the Office accordingly maintains the allowance of the claims.

The Office also notes and remarks that the application claims are re-allowed for the reasons stated previously on the Notice of Allowance dated October 24, 2019:

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenford Madamba whose telephone number is 571-272- 7989. The examiner can normally be reached on Monday-Friday 7:00AM-4: 30PM, first Fridays OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Parry can be reached on 571-272-8328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, .contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GLENFORD J MADAMBA/
Primary Examiner, Art Unit 2451

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	**Art Unit**
	GLENFORD J MADAMBA	2451

CPC							
Symbol						**Type**	**Version**
H04L	/	41	/	22		F	2013-01-01
H04L	/	65	/	60		I	2013-01-01
G06F	/	3	/	04842		I	2013-01-01
G06F	/	3	/	0482		I	2013-01-01
H04L	/	63	/	20		I	2013-01-01
H04L	/	67	/	02		I	2013-01-01
H04L	/	67	/	10		I	2013-01-01
H04L	/	12	/	2809		I	2013-01-01
H04L	/	41	/	0809		I	2013-01-01
H04W	/	12	/	08		I	2013-01-01
H04W	/	12	/	003		I	2019-01-01
H04W	/	12	/	04		I	2013-01-01
H04L	/	63	/	10		I	2013-01-01
H04L	/	41	/	0803		I	2013-01-01
H04L	/	12	/	2807		I	2013-01-01
H04L	/	12	/	28		I	2013-01-01
G06F	/	3	/	0481		I	2013-01-01
G06F	/	3	/	04847		I	2013-01-01
H04L	/	67	/	141		I	2013-01-01
H04L	/	12	/	2803		I	2013-01-01
H04L	/	41	/	28		A	2013-01-01
H04L	/	63	/	0823		A	2013-01-01
H04W	/	84	/	12		A	2013-01-01
H04L	/	2012	/	2841		A	2013-01-01
H04L	/	2012	/	2849		A	2013-01-01
H04L	/	63	/	065		A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	11 November 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20191111

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	**Art Unit**
	GLENFORD J MADAMBA	2451

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04L	/	12	/	24

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
709	222

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	11 November 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20191111

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	**Art Unit**
	GLENFORD J MADAMBA	2451

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	10	10	19	19										
2	2	11	11	20	20										
3	3	12	12												
4	4	13	13												
5	5	14	14												
6	6	15	15												
7	7	16	16												
8	8	17	17												
9	9	18	18												

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	11 November 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20191111

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	**Art Unit**
	GLENFORD J MADAMBA	2451

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	05/27/2019	09/16/2019	11/11/2019						
1	1	✓	=	=						
2	2	✓	=	=						
3	3	✓	=	=						
4	4	✓	=	=						
5	5	✓	=	=						
6	6	✓	=	=						
7	7	✓	=	=						
8	8	✓	=	=						
9	9	✓	=	=						
10	10	✓	=	=						
11	11	✓	=	=						
12	12	✓	=	=						
13	13	✓	=	=						
14	14	✓	=	=						
15	15	✓	=	=						
16	16	✓	=	=						
17	17	✓	=	=						
18	18	✓	=	=						
19	19	✓	=	=						
20	20	✓	=	=						

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

CPC - Searched*		
Symbol	Date	Examiner
709/222.ccls. or H04L41/22.cpc. or G06F3/0481.cpc. or G06F3/0482.cpc. or G06F3/04842.cpc. or G06F3/04847.cpc. or H04L12/28.cpc. or H04L12/2803.cpc. or H04L12/2807.cpc. or H04L12/2809.cpc. or H04L41/0809.cpc. or H04L63/10.cpc. or H04L65/60.cpc. or H04L67/02.cpc. or H04L67/10.cpc. or H04L67/141.cpc. or H04W12/04.cpc. or H04W12/08.cpc.	05/01/2019	GJM

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
709	222	05/01/2019	GJM

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
DBs searched: USPAT, USPGPUB, USOCR, DERWENT, EPO, JPO, IBM-TDB	05/01/2019	GJM
Claim amendments / remarks received in response to non-final action issued, and amended independent claim 1 appears to be in condition for allowance. Updated search conducted, and no additional / pertinent candidate prior art found to fully / reasonably disclose the independent claims. Case is allowed.	09/16/2019	GJM
RCE with IDS filed post-allowance for consideration. The Office has considered the references listed in the IDS, but maintains the allowanbility of the claim set as there appears to be no additional reference that reasonably and/or fully discloses the currently claimed features and/or limitations. Case is re-allowed.	11/12/2019	GJM

LINKPLAY EXHIBIT 1002
Page 37 of 862

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
709/H04L41	222/28	09/16/2019	GJM

LINKPLAY EXHIBIT 1002
Page 38 of 862

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

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

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, Glenford J.
Attorney Docket Number	05-0601-CON0319A

U.S.PATENTS Remove

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
	1	5642171		1997-06-24	BAUMGARTNER; Donn M. et al.	
	2	6006275		1999-12-21	PICAZO et al.	
	3	6119239		2000-09-12	FUJII; Kazuo	
	4	6122749		2000-09-19	GULICK; Dale A.	
	5	6703940		2004-03-09	ALLEN; William A. et al.	
	6	6801507		2004-10-05	HUMPLEMAN; Richard et al.	
	7	7058719		2006-06-06	MOTOYAMA; Tetsuro	
	8	7269338		2007-09-11	JANEVSKI; Angel	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

	9	7313384		2007-12-25	MEENAN; Patrick et al.	
	10	7321784		2008-01-22	SERCEKI; Zeljko John et al.	
	11	8064904		2011-11-22	JAIN; Nikhil et al.	
	12	8601394		2013-12-03	SHEEHAN; Conor et al.	
	13	8688431		2014-04-01	LYONS; Kenneth S. et al.	

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020161865		2002-10-31	NGUYEN; Brian G.	
	2	20050198221		2005-09-08	MANCHESTER; Scott et al.	
	3	20060161635		2006-07-20	LAMKIN; Allan B. et al.	
	4	20070220150		2007-09-20	GARG; Gopal K.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

	5	20080109852		2008-05-08	KRETZ; Martin H. et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

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]
	1	2371747	CA	A1	2001-05-25	SAMSUNG ELECTRONICS CO LTD [KR]		
	2	0237217	WO	A2	2002-05-10	SONY ELECTRONICS INC [US]		
	3	9709756	WO	A2	1997-03-13	BUCALO BRIAN D [US], et al.		

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

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.	T[5]
	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.	
	2	Sonos, Inc. v. Implicit, LLC: Declaration of Roman Chertov in Support of the Inter Partes Review of U.S. Patent No. 8,942,252 dated March 9, 2018, 81 pages.	
	3	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint - Exhibit A, filed October 14, 2019, 3 pages.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

	4	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint - Exhibit C, filed October 14, 2019, 16 pages.	
	5	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint - Exhibit D, filed October 14, 2019, 36 pages.	
	6	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint - Exhibit E, filed October 14, 2019, 21 pages.	
	7	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint, filed October 14, 2019, 66 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	11/11/2019

*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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

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)	2019-10-28
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.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

Privacy Act Statement

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:

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.

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.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1985	709/220.ccls.	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:13
S2	2193	ad$1hoc adj network$1	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:13
S3	438682	(wired, wireless)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S4	1521	S2 and S3	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S5	1082	S2 same S3	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S6	8	S5 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S7	29	S5 and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:17
S8	6	S7 and zone	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:18
S9	262	zone adj players	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:18
S10	4904	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:18
S11	728858	(wired, wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2009/01/09 12:19

			IBM_TDB			
S12	4102	S10 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:19
S13	2968	S10 same S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:19
S14	8	S13 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:19
S15	8	S14 and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:19
S16	29	S13 and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:20
S17	0	S9 and S16	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:20
S18	26	S9 and network	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:20
S20	8	(US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$).did.	USPAT; DERWENT	OR	ON	2009/01/13 13:01
S21	4909	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:26
S22	593	S21 and broadcast$3 near3 (period$6, interval$1, time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:27
S23	122	S21 and broadcast$3 adj (period$6, interval$1, time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2009/01/13 13:27

			IBM_TDB			
S24	0	S21 and broadcast$3 adj (period$6, interval$1, time) with expir$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:27
S25	2	S21 and broadcast$3 adj (period$6, interval$1, time) with (end$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:28
S26	7	S23 and (wep, ssid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:30
S27	0	zone adj player$1 same configur$5 with mode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:04
S28	18	zone adj player$1 same configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:04
S29	29	prob$3 near3 message and SSID and WEP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:10
S30	4	S29 and flag same broadcast	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:10
S31	0	broadcast adj storm same flag same probe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:12
S32	2	broadcast adj storm and flag same probe	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2009/01/13 17:13

			EPO; JPO; DERWENT; IBM_TDB			
S33	0	configuration adj mode and zone adj player	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:14
S34	2308	configuration adj mode and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:14
S35	528	configuration adj mode same controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:14
S36	0	S35 and "zone player"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:15
S37	0	S35 and "synchrony group"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:16
S38	266	S35 and group	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:16
S39	14	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/01/14 11:26
S40	2	zone adj player and (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2009/01/14 11:28

			IBM_TDB			
S41	1909	zone and (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 11:30
S42	153	zone same (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 11:30
S43	51	zone with (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 11:30
S44	447	zone adj players	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:34
S45	5809	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:34
S46	1	S44 and S45	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:34
S47	101	S44 and network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:35
S48	79	S47 and (synchrony, group)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:36
S49	1404	zone near3 player$1	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2009/11/06 15:46

			EPO; JPO; DERWENT; IBM_TDB			
S50	2	S45 and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:46
S51	12	S45 same zone with (player$1, device$1, terminal$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:47
S52	2085	controller and ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:52
S53	1707	S52 and (configur$5, synchroni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:53
S54	57	S53 and (synchroniz$7) near5 operation$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:54
S55	14	S54 and (broadcast$3) with (packet, data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:55
S56	2	"20080267218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 16:19
S57	22	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$).did. or (US-7469139-$ or US-	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:16

		7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$).did.				
S58	2	"6349352".pn.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:17
S59	23	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:19
S60	15	S59 and synchron$7	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:20
S61	2	"20090259762"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:40
S62	51442	(zone, media) near3 player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:08
S63	20532	S62 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:08
S64	514	S63 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:08
S65	218	S64 and playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:09
S66	24	S65 and join$3 near3 network	US-PGPUB; USPAT; USOCR;	OR	ON	2011/03/03 18:09

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S67	1599	zone near3 player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:15
S68	473	S67 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:15
S69	6	S68 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:15
S70	496	zone adj player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:16
S71	1	S70 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:16
S72	145	S70 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:16
S73	0	S72 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:17
S74	71	S72 and network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:17
S75	151	(audio, media) adj player$1 with	US-PGPUB;	OR	ON	2011/03/03

		zone$2	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			18:22
S76	93	S75 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:22
S77	0	S76 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:22
S78	0	S75 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:23
S79	0	S76 and IP near2 broadcast	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:24
S80	0	S76 and datagrams near2 prob$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:24
S81	22189	secure near2 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:21
S82	10665	(unsecure, ad$1hoc) near2 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:22
S83	978	S81 and S82	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:22
S84	0	S83 and zone near2 player$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:22
S85	509	zone adj players	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:22

S86	0	S85 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:23
S87	8495	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:23
S88	1	S85 and S87	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:23
S89	9	S85 and (secure, private) near2 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:25
S90	473	zone adj player$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:27
S91	94	S90 and (secure, ad$1hoc)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:28
S92	37	S91 and network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:28
S93	8	S92 and join$3	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:28
S94	29	S92 not S93	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:30
S95	0	S90 and "wep key"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:31
S96	0	S90 and "wired equivalent privacy"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:31
S97	2098	media near2 player with (zones, area)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:31
S98	3	S97 and "wired equivalent privacy"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:32
S99	45961	Home near2 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:33
S100	374	S99 and ("wired equivalent privacy",	US-PGPUB;	OR	ON	2011/10/11

		HHID)	USPAT; DERWENT			12:33
S101	374	S99 and ("wired equivalent privacy")	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:33
S102	0	S101 and HHID	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:33
S103	0	S99 and HHID	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:34
S104	67	S101 and join$3 near5 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:34
S105	61	S101 and join$3 near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:34
S106	27	S81 and S105	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:35
S107	39	S105 and (secure, private) near2 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:35
S108	14	S82 and S107	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:35
S109	4	S108 and (media, playback, zone) near2 (device, terminal, apparatus)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:42
S110	31	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:48
S111	358248	(media, playback, zone) near2 (device, terminal, apparatus, player)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:20
S112	10969	S111 and home near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:20

S113	1507	S112 and zone$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:21
S114	34	S113 and WEP	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:21
S115	2	"20100245582"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:31
S116	743	wep and home near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:34
S117	98	S116 and zone$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:34
S118	10	S117 and join$4 near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:35
S119	0	S85 and WEp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:37
S120	665	home near2 network and WEP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:38
S121	357	S120 and (audio, music)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:38
S122	76	S121 and (connect44, join$4) near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:38
S123	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/13 15:40

		or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.				
S124	30	S123 and wired and wireless	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/13 15:40
S125	9	S123 and "network interface" same wired same wireless	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/13 15:43
S126	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/22 21:43
S127	16	S126 and configuration near3 (setting$1, information)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/22 21:44
S128	393	wep and request with configuration	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/23 00:47

S129	78	S128 and join$3 with network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/23 00:47
S130	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/06/12 14:09
S131	21	S130 and button	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/06/12 14:11
S132	5224	709/231.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:22
S133	4802	370/254.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:22
S134	0	S132 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S135	17	S133 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S136	2189	"L5" and (wired, wireless)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S147	77	(US-20060142034-$ or US-	US-PGPUB;	OR	OFF	2019/05/03

		20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	USPAT; DERWENT			17:04
S148	77	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 17:49
S150	19	S148 and wlan	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 17:50
S151	7	S148 and wlan with secure	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 17:50
S152	45	S148 and configuration	US-PGPUB; USPAT;	OR	OFF	2019/05/15 18:34

			DERWENT			
S153	1737	zone near2 players	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:20
S154	875	S153 and audio	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:20
S155	19	S154 and wlan	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:20
S156	531	networked with audio near3 system	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:22
S157	71	S156 and synchronized near3 playback	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:22
S158	39	S157 and (@ad<"20150604" or @rlad<"20050604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:23
S159	4	S157 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:24
S160	793	(media, zone) near2 players and synchronized with playback	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:26
S161	72	S156 and S160	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:26
S162	1	S161 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:26
S163	4974	(media, zone, audio) near2 players with (group$1, zone$1)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:27
S164	250	S163 and wlan	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 19:28
S165	27	S164 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:28
S166	310	S154 and grouping	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 19:31
S167	35	S166 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO;	OR	ON	2019/05/15 19:31

			DERWENT			
S168	257	(media, audio) adj player near2 (zone$1, group$1, grouping$1)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:36
S169	505	(media, audio) adj player with player near2 (zone$1, group$1, grouping$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/15 19:36
S170	52	S169 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:37
S171	874	networked same audio near3 system	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:39
S172	265	S171 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:40
S173	419	S156 and (@ad<"20150604" or @rlad<"20050604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:40
S174	105	S173 and group$4 with player$1	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:40
S175	1	"20040168081"	US-PGPUB	OR	ON	2019/05/20 16:00
S176	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/20 17:37

		US-7792311-$).did.				
S177	3	S176 and audio near2 (network, system) and playback near3 (device, terminal, ue)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/20 17:38
S178	2	"20020124097"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/20 17:39
S179	475824	709/222.ccls. or H04L41/22.cpc. or G06F3/0481.cpc. or G06F3/0482.cpc. or G06F3/04842.cpc. or G06F3/04847.cpc. or H04L12/28.cpc. or H04L12/2803.cpc. or H04L12/2807.cpc. or H04L12/2809.cpc. or H04L41/0809.cpc. or H04L63/10.cpc. or H04L65/60.cpc. or H04L67/02.cpc. or H04L67/10.cpc. or H04L67/141.cpc. or H04W12/04.cpc. or H04W12/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:20
S180	629	S179 and ssid and wep near2 (key, password)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:20
S181	236	S180 and wlan	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:20
S182	51	S181 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:21
S183	51	S182 and access near2 point	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:21
S184	450103	709/222.ccls. or H04L41/22.cpc. or G06F3/0481.cpc. or G06F3/0482.cpc. or G06F3/04842.cpc. or G06F3/04847.cpc. or H04L12/28.cpc. or H04L12/2803.cpc. or H04L12/2807.cpc. or H04L12/2809.cpc. or H04L41/0809.cpc. or H04L63/10.cpc. or H04L65/60.cpc. or H04L67/02.cpc. or H04L67/10.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/16 13:59

		or H04L67/141.cpc. or H04W12/04.cpc. or H04W12/08.cpc.				
S185	75	S184 and ssid and wep and (join$3, access$3) near3 secure near network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/16 14:03
S186	38	S185 and wlan	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/16 14:05
S187	242	((("MILLINGTON") near3 ("Nicholas")) OR (("HAINSWORTH") near3 ("Paul"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/09/16 14:06
S188	3	S187 and ssid and wep and (join$3, access$3) near3 secure near network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/16 14:06
S193	18	("20020161865" | "20050198221" | "20060161635" | "20070220150" | "20080109852" | "5642171" | "6006275" | "6119239" | "6122749" | "6703940" | "6801507" | "7058719" | "7269338" | "7313384" | "7321784" | "8064904" | "8601394" | "8688431").PN.	US-PGPUB; USPAT	OR	ON	2019/11/10 19:30
S194	4	S193 and access adj point and (mobile, controller)	US-PGPUB; USPAT	OR	ON	2019/11/10 19:50

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	9128	709/220.ccls.	US-PGPUB; USPAT	OR	OFF	2019/11/11 23:58
L2	4916	L1 and (wired, wireless)	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
L3	90	L2 and ssid and wep	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
L4	14	L3 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
L5	1765	H04L41/28$2.cpc.	US-PGPUB; USPAT	OR	OFF	2019/11/11 23:58
L6	39	L5 and ssid and wep	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
L7	14	L6 and wlan	US-PGPUB; USPAT	OR	OFF	2019/11/11 23:58
L8	14	L7 and (join$3, access$3) near3	US-PGPUB;	OR	ON	2019/11/11

		network	USPAT			23:58
L9	1092542	@ad >= "20040606" and @ad<= "20060606"	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
L10	1287	L1 and L9	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
L11	19	L10 and ssid and wep	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
L12	2	L11 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
S137	6339	709/220.ccls.	US-PGPUB; USPAT	OR	OFF	2012/07/15 11:24
S138	3105	S137 and (wired, wireless)	US-PGPUB; USPAT	OR	ON	2012/07/15 11:25
S139	58	S138 and ssid and wep	US-PGPUB; USPAT	OR	ON	2012/07/15 11:25
S140	4	S139 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2012/07/15 11:25
S143	1080521	@ad >= "20040606" and @ad<= "20060606"	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S144	1141	S137 and S143	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S145	17	S144 and ssid and wep	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S146	1	S145 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S189	1691	H04L41/28$2.cpc.	US-PGPUB; USPAT	OR	OFF	2019/09/16 14:07
S190	38	S189 and ssid and wep	US-PGPUB; USPAT	OR	ON	2019/09/16 14:08
S191	13	S190 and wlan	US-PGPUB; USPAT	OR	OFF	2019/09/16 14:08
S192	13	S191 and (join$3, access$3) near3 network	US-PGPUB; USPAT	OR	ON	2019/09/16 14:09

11/12/2019 12:04:16 AM
C:\Users\gmadamba\Documents\EAST\Workspaces\16298515_2019-05-02_CON of 15091113.wsp

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A	7686

135176 7590 11/05/2019

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

EXAMINER	
MADAMBA, GLENFORD J	

ART UNIT	PAPER NUMBER
2451	

NOTIFICATION DATE	DELIVERY MODE
11/05/2019	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ls3_docketing@cardinal-ip.com
york@ls3ip.com

Decision Granting Request for Prioritized Examination (Track I)	**Application No.** 16/298,515	**Applicant(s)** Millington et al.	
	Examiner CHERYL P GIBSON BAYLOR	**Art Unit** OPET	**AIA (FITF) Status** No

1. THE REQUEST FILED 28 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	

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, Glenford J.
Attorney Docket Number	05-0601-CON0319A

U.S.PATENTS Remove

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
	1	5642171		1997-06-24	BAUMGARTNER; Donn M. et al.	
	2	6006275		1999-12-21	PICAZO et al.	
	3	6119239		2000-09-12	FUJII; Kazuo	
	4	6122749		2000-09-19	GULICK; Dale A.	
	5	6703940		2004-03-09	ALLEN; William A. et al.	
	6	6801507		2004-10-05	HUMPLEMAN; Richard et al.	
	7	7058719		2006-06-06	MOTOYAMA; Tetsuro	
	8	7269338		2007-09-11	JANEVSKI; Angel	

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	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

	9	7313384		2007-12-25	MEENAN; Patrick et al.	
	10	7321784		2008-01-22	SERCEKI; Zeljko John et al.	
	11	8064904		2011-11-22	JAIN; Nikhil et al.	
	12	8601394		2013-12-03	SHEEHAN; Conor et al.	
	13	8688431		2014-04-01	LYONS; Kenneth S. et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020161865		2002-10-31	NGUYEN; Brian G.	
	2	20050198221		2005-09-08	MANCHESTER; Scott et al.	
	3	20060161635		2006-07-20	LAMKIN; Allan B. et al.	
	4	20070220150		2007-09-20	GARG; Gopal K.	

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	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

	5	20080109852		2008-05-08	KRETZ; Martin H. et al.	

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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]
	1	2371747	CA	A1	2001-05-25	SAMSUNG ELECTRONICS CO LTD [KR]		
	2	0237217	WO	A2	2002-05-10	SONY ELECTRONICS INC [US]		
	3	9709756	WO	A2	1997-03-13	BUCALO BRIAN D [US], et al.		

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NON-PATENT LITERATURE DOCUMENTS Remove

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.	T[5]
	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.	
	2	Sonos, Inc. v. Implicit, LLC: Declaration of Roman Chertov in Support of the Inter Partes Review of U.S. Patent No. 8,942,252 dated March 9, 2018, 81 pages.	
	3	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint - Exhibit A, filed October 14, 2019, 3 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

	4	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint - Exhibit C, filed October 14, 2019, 16 pages.	
	5	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint - Exhibit D, filed October 14, 2019, 36 pages.	
	6	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint - Exhibit E, filed October 14, 2019, 21 pages.	
	7	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint, filed October 14, 2019, 66 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

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)	2019-10-28
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.**

Privacy Act Statement

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:

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.

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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.

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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.

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	16298515	Filing Date	2019-03-11	Docket Number (if applicable)	05-0601-CON0319A	Art Unit	2451
First Named Inventor	Nicholas A.J. Millington			Examiner Name	MADAMBA, Glenford J.		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☐ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 506632

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

Signature of Registered U.S. Patent Practitioner			
Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-10-28
Name	Brandon J. Kennedy	Registration Number	67894

This collection of information is required by 37 CFR 1.114. 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 12 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.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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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)).

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Electronic Patent Application Fee Transmittal

Application Number:	16298515
Filing Date:	11-Mar-2019
Title of Invention:	PLAYBACK DEVICE CONNECTION
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Filer:	Brandon Jacob Kennedy
Attorney Docket Number:	05-0601-CON0319A

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
REQUEST FOR PRIORITIZED EXAMINATION	1817	1	4000	4000
Pages:				
Claims:				
Miscellaneous-Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
RCE- 1ST REQUEST	1801	1	1300	1300
		Total in USD ($)		**5440**

Electronic Acknowledgement Receipt	
EFS ID:	37582852
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	PLAYBACK DEVICE CONNECTION
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	28-OCT-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:42:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$5440
RAM confirmation Number	E20190RH43165714
Deposit Account	506632
Authorized User	Brandon Kennedy
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	TrackOne Request	05-0601-CON0319A_Track1Request.pdf	145762 fbf4ec94b0006e02b1850d78f92830e171518928	no	2
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_0_IDS_20191028165927.pdf	1054475 0e1062c71e2a0cf1187431920a9f5d879603410a	no	6
Warnings:					
Information:					
3	Foreign Reference	CA2371747A1.pdf	4669992 973ab3f0c2df9ad72f39890eb610edcc3ac9ff0f	no	154
Warnings:					
Information:					
4	Foreign Reference	WO0237217A2.pdf	1394152 285ac69864401a4b03d47e2d0b9180521a30715e	no	25
Warnings:					
Information:					
5	Foreign Reference	WO9709756A2.pdf	2241998 a68831fab8827bd3e7c3a29f3b8047f8780f8b76	no	22
Warnings:					
Information:					
6	Non Patent Literature	Chertov_IPR_Declaration_re_US7391791.pdf	1315231 a09035be3c9f1b7d4535c44b8916ae2d925b74ed	no	92
Warnings:					
Information:					

7	Non Patent Literature	Chertov_IPR_Declaration_re_US8942252.pdf	1061538 24a45c46818f0337fbb840e3d250ba2918fda553	no	81
Warnings:					
Information:					
8	Non Patent Literature	Bluesound_Answer_Exhibit_C_10-14-19_16pages.pdf	295512 79d8692548c632db0a5acd2ae8791191895938a3	no	16
Warnings:					
Information:					
9	Non Patent Literature	Bluesound_Answer_Exhibit_D_10-14-19_36pages.pdf	1070335 5a7d0c1e97c71bb9904a88df82603ab7a315f629	no	36
Warnings:					
Information:					
10	Non Patent Literature	Bluesound_Answer_Exhibit_E_10-14-19_21pages.pdf	581432 10f01327e22a98696e228012522b887f50b2e02c	no	21
Warnings:					
Information:					
11	Non Patent Literature	Bluesound_Answer_10-14-19_66pages.pdf	1356492 56f34b470e08ebed160308d3f675acc9acb1ab6c	no	66
Warnings:					
Information:					
12	Non Patent Literature	Bluesound_Answer_Exhibit_A_10-14-19_3pages.pdf	700504 bea13eb9a07e0e20c0b0a7f80108261c286686a9	no	3
Warnings:					
Information:					
13	Request for Continued Examination (RCE)	05-0601-CON0319A_RCE.pdf	1349949 008e1c86be01cf4ea8b65a7850fe77415e851ff1	no	3
Warnings:					
Information:					

14	Fee Worksheet (SB06)	fee-info.pdf	33883 1782de8c8cfb644d7f03067a4e0c47f094484d5a	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	17271255	

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:	Nicholas A.J. Millington	Nonprovisional Application Number (if known):	16/298,515
Title of Invention:	Playback Device Connection		

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 /Brandon J. Kennedy/	Date 2019-10-28
Name (Print/Typed) Brandon J. Kennedy	Practitioner Registration Number 67,894

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.

Privacy Act Statement

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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/298,515	Filing Date 03/11/2019	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

	(Column 1)	(Column 2)			
FOR	NUMBER FILED	NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $460 =	
☐ 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).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	10/28/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/JEFFERY L OLSEN/
*** 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 number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. 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 12 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.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A	7686

135176 7590 10/16/2019

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

EXAMINER	
MADAMBA, GLENFORD J	

ART UNIT	PAPER NUMBER
2451	

NOTIFICATION DATE	DELIVERY MODE
10/16/2019	ELECTRONIC

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.

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ls3_docketing@cardinal-ip.com
york@ls3ip.com

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR/ PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
16/298,515	03/11/2019	Millington et al.	05-0601-CON0319A

LS3 Sonos Lee Sullivan Shea & Smith LLP 656 W. Randolph St. Floor 5W Chicago, IL 60661	EXAMINER	
	GLENFORD J MADAMBA	
	ART UNIT	PAPER
	2451	20191010

DATE MAILED: _____

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

Commissioner for Patents

This communication is being sent out to indicate that the document(s) listed in the ids filed/dated 9/24/2019 has/have been considered by the Office on 10/10/2019.

/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	

PTO-90C (Rev.04-03)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, Glenford J.
Attorney Docket Number	05-0601-CON0319A

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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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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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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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.	T[5]

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	Application Number	16298515
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	First Named Inventor	MILLINGTON; Nicholas A.J.
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	Attorney Docket Number	05-0601-CON0319A

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If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	10/10/2019

*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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

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)	2019-09-24
Name/Print	Brandon J. Kennedy	Registration Number	67,894

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.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

Privacy Act Statement

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:

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.

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.

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, Glenford J.
Attorney Docket Number	05-0601-CON0319A

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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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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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]
	1	None						

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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.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2019-09-24
Name/Print	Brandon J. Kennedy	Registration Number	67,894

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Electronic Patent Application Fee Transmittal					
Application Number:	16298515				
Filing Date:	11-Mar-2019				
Title of Invention:	PLAYBACK DEVICE CONNECTION				
First Named Inventor/Applicant Name:	Nicholas A.J. Millington				
Filer:	Brandon Jacob Kennedy/Jaden Knosher				
Attorney Docket Number:	05-0601-CON0319A				
Filed as Large Entity					
Filing Fees for Utility under 35 USC 111(a)					
Description		**Fee Code**	**Quantity**	**Amount**	**Sub-Total in USD($)**
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					
Extension-of-Time:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
		Total in USD ($)		**240**

Electronic Acknowledgement Receipt	
EFS ID:	37259098
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	PLAYBACK DEVICE CONNECTION
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	24-SEP-2019
Filing Date:	11-MAR-2019
Time Stamp:	16:23:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$240
RAM confirmation Number	E20199NG24211581
Deposit Account	506632
Authorized User	Brandon Kennedy
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	Non Patent Literature	15091113_NFOA_05-0601-CON0316B_9-4-19_23pages.pdf	1057382 6160e9a7c851af707f6d9288d40e668e65525b86	no	23
Warnings:					
Information:					
2	Non Patent Literature	16298542_NOA_05-0601-CON0319B_8-26-19_8pages.pdf	446085 e90ae797da42f638c3259781157136a5e0562fa3	no	8
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_0_IDS_20190924153110.pdf	1053298 f6a0ce270f862606d6562df04121b6f3e4355087	no	4
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30446 2ad5b895c1c83b93fb9d304d86dc98292ce16958	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2587211		

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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
(Case No. 05-0601-CON0319A)

In re Application of:	)	
	)	Confirmation No.: 7686
Sonos, Inc.	)	
	)	Group Art Unit: 2451
Serial No.: 16/298,515	)	
	)	Examiner: Madamba, Glenford J.
Filed: March 11, 2019	)	
	)	
Title: PLAYBACK DEVICE CONNECTION	)	
	)	

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

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Applicant thanks Examiner Madamba for the thorough examination and for recognizing the allowability of the subject matter of the claims.

Applicant respectfully submits that the Reasons for Allowance may not take into account the entirety of the Applicant's claimed invention as reflected in the claims, the specification, and the prosecution history of the application. Applicant believes that the claims, specification, and prosecution history in their entirety provide an adequate basis for allowability of the claims.

The Applicant also notes that there are additional reasons that one or more of the claims are allowable that have not been specifically included in the Reasons for Allowance. The Applicant respectfully submits that, notwithstanding the Reasons for Allowance, it is believed that each of the allowed claims is patentable in its own right, for other reasons raised during prosecution and/or explained in the Specification of the present application.

For example, while the Reasons for Allowance focus on certain aspects of the independent claims, there are many aspects of the independent claims that distinguish the allowed claims from the cited art of record. All of these distinctions, made apparent in the prosecution history of the present application, should be considered when evaluating the allowability of the claims.

To the extent that specific parts of the Examiner's Statement of Reasons for Allowance or other statements in the Notice of Allowance may pertain to features appearing in some but not all claims, Applicant respectfully submits that the Examiner has thoroughly examined the claims, recognized the features appearing or not appearing in each of the claims, and properly found each of the claims to be allowable. To the extent that the Examiner has paraphrased claim features, Applicant respectfully submits that the claims have been construed in view of their language in light of the specification and not limited by any of the Examiner's statements or by the recitation therein of any specific claim features.

Respectfully submitted,

Date: September 24, 2019 By: /Brandon J. Kennedy/
Brandon J. Kennedy
Registration No. 67,894

Issue Fee Transmittal Form

Application Number	Filing Date	First Named Inventor	Atty. Docket No.	Confirmation No.
16298515	11-Mar-2019	Nicholas Millington	05-0601-CON0319A	7686

TITLE OF INVENTION :

PLAYBACK DEVICE CONNECTION

Entity Status	Application Type	Art Unit	Class - Subclass	EXAMINER
Regular Undiscounted	Utility under 35 USC 111(a)	2451	222000	GLENFORD MADAMBA

Issue Fee Due	Publication Due	Total Fee(s) Due	Date Due	Prev. Paid Fee
$1000	$0	$1000	24-Dec-2019	$0

1.Change of Correspondence Address and/or Indication Of Fee Address (37 CFR 1.33 & 1.363)

Current Correspondence Address:	Current Indicated Fee Address :
135176 LS3 Sonos Lee Sullivan Shea & Smith LLP 656 W. Randolph St. Floor 5W Chicago IL 60661 UNITED STATES 312-754-9602 ls3_docketing@cardinal-ip.com	
☐ Change of correspondence address requested, system generated AIA/122-EFS form attached	☒ Fee Address indication requested, system generated SB/47-EFS form attached

2.Entity Status

Change in Entity Status

○ Applicant certifying micro entity status; system generated Micro Entity certification form attached. See 37 CFR 1.29.
Note: Absent a valid certification of micro entity status, issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment. If this box is checked, you will be prompted to choose a micro entity status on the gross income basis (37 CFR 1.29(a)) or the institution of higher education basis (37 CFR 1.29(d)), and make the applicable certification online.

○ Applicant asserting small entity status. See 37 CFR 1.27.
Note: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

◉ Applicant changing to regular undiscounted fee status.
Note: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

Doc Code: IFEE PTOL/85B-EFS

Document Description: Issue Fee Payment (PTO-85B)

3.The Following Fee(s) Are Submitted:

☒ Issue Fee	☐ I authorize USPTO to apply my previously paid issue fee to the current fees due
☐ Publication Fee	☐ The Director is hereby authorized to apply my previously paid issue fee to the current fee due and to charge deficient fees to Deposit Account Number _____
☐ Advance Order - # of copies _____	☒ If **in addition to** the payment of the issue fee amount submitted with this form, there are any discrepancies in any amount(s) due, the Director is authorized to charge any deficiency or credit any overpayment, to Deposit Account Number 506632 . The **issue fee must be submitted** with this form. **If payment of the issue fee does not accompany this form, checking this box and providing a deposit account number will NOT be effective to satisfy full payment of the fee(s) due.**

4.Firm and/or Attorney Names To Be Printed

NOTE: If no name is listed, no name will be printed
For printing on the patent front page, list to be displayed as entered

1.

2.

3.

5.Assignee Name(s) and Residence Data To Be Printed

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

Name	City	State	Country	Category
Sonos, Inc.	Santa Barbara	CALIFORNIA	united states	corporation

6.Signature

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 has filed and has been granted power of attorney in this application. I also certify that this Fee(s) Transmittal form is being transmitted to the USPTO via EFS-WEB on the date indicated below.

Signature	/Brandon J. Kennedy/	**Date**	09-24-2019
Name	Brandon Jacob Kennedy	**Registration Number**	67894

WEB IFEE 1.0

Doc Code: MFEE.C.AD
Document Description: Maintenance Fee Address Change

PTO/SB/47-EFS

FEE ADDRESS INDICATION FORM			
Application Number	16298515	Art Unit	2451
Filing Date	11-Mar-2019	Examiner Name	GLENFORD MADAMBA
First Name Inventor	Nicholas Millington	Attorney Doc. Number	05-0601-CON0319A

INSTRUCTIONS: In order for the fee address identified on this form to be effective, the issue fee must have been paid for the application listed on this form. Only an address represented by a customer number can be established as the fee address for maintenance fee purposes (hereafter, fee address). A fee address should be established when correspondence related to maintenance fees should be mailed to a different address than the correspondence address for the application. For more information on customer numbers, see the Manual of Patent Examining Procedure (MPEP) § 403.

Please recognize as the Fee Address under the provisions of 37 CFR 1.363 the address associated with:

Customer Number:	135176 LS3 Sonos Lee Sullivan Shea & Smith LLP 656 W. Randolph St. Floor 5W Chicago IL 60661 UNITED STATES 312-754-9602 ls3_docketing@cardinal-ip.com

Signature :

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 has filed and has been granted power of attorney in this application.

Signature	/Brandon J. Kennedy/	**Date**	09-24-2019
Name	Brandon Jacob Kennedy	**Registration Number**	67894

Electronic Patent Application Fee Transmittal

Application Number:	16298515
Filing Date:	11-Mar-2019
Title of Invention:	PLAYBACK DEVICE CONNECTION
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Filer:	Brandon Jacob Kennedy
Attorney Docket Number:	05-0601-CON0319A

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1000**

Electronic Acknowledgement Receipt	
EFS ID:	37258308
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	PLAYBACK DEVICE CONNECTION
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	24-SEP-2019
Filing Date:	11-MAR-2019
Time Stamp:	16:25:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1000
RAM confirmation Number	E20199NG25491628
Deposit Account	506632
Authorized User	Brandon Kennedy
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 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	Amendment after Notice of Allowance (Rule 312)	05-0601-CON0319A_Comments_on_Statement.pdf	67403 a1ca8f4ed72ce755cdb69d989de10ea791b5e221	no	2
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	Web85b.pdf	46159 7ecb30c0baafb4d5d15bf9d54161733dc43b3552	no	2
Warnings:					
Information:					
3	Maintenance Fee Address Change	web85feeaddress.pdf	33082 1d47fdc2d5e739a4d9dba195559e38332dc1624e	no	1
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	31793 86ef8ffa41253191805393493a0eb175fadc2d6a	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	178437		

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

135176 7590 09/24/2019

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

EXAMINER	
MADAMBA, GLENFORD J	
ART UNIT	PAPER NUMBER
2451	

DATE MAILED: 09/24/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A	7686

TITLE OF INVENTION: PLAYBACK DEVICE CONNECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	12/24/2019

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PTOL-85 (Rev. 02/11)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

135176 7590 09/24/2019

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A	7686

TITLE OF INVENTION: PLAYBACK DEVICE CONNECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	12/24/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
MADAMBA, GLENFORD J	2451	709-222000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

LINKPLAY EXHIBIT 1002
Page 111 of 862

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A	7686

135176 7590 09/24/2019

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

EXAMINER	
MADAMBA, GLENFORD J	
ART UNIT	PAPER NUMBER
2451	

DATE MAILED: 09/24/2019

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

Privacy Act Statement

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:

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 disclosure of these records is required by the Freedom of Information Act.
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 inspection or an issued patent.
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.

Notice of Allowability	Application No. 16/298,515	Applicant(s) Millington et al.	
	Examiner GLENFORD J MADAMBA	Art Unit 2451	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 22 July 2019.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 1-20 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/GLENFORD J MADAMBA/
Primary Examiner, Art Unit 2451

Allowable Subject Matter

1. The numbering of original claims 1-20 is maintained. No claims have been canceled and no new claims have been added.

2. The following is an examiner's statement of reasons for allowance:

The Office has deemed Applicant's latest filed claim amendments and corresponding remarks (filed 7/22/2019) *persuasive* to overcome the current rejection of the claims over the applied prior art reference(s), and the claims are thus considered in condition for patentability (**MPEP § 1302.14).**

In particular, the Office notes that no reasonable rejection of the claim over prior art or prior art combination discloses the currently recited features / elements of the independent claims *as a whole*. Additionally, the Office further notes that Applicant's latest filed claim amendments further defining the independent claims, and specifying in part a playback device further performing the function of "while in the setup mode, receiving a response to the first message that facilitates establishing an initial communication path with a computing device that is installed with an application for controlling the playback device, wherein the computing device is operating on a secure wireless local area network (WLAN) that is defined by an access point wherein the initial communication path with the computing device does not traverse the access point:…", as well as the accompanying arguments / remarks [Remarks: par 3, pg. 11 – par 3, pg. 12] -- is also considered to be persuasive, as none of the currently applied prior art reference(s)

[*Ladas* et al], or additional candidate prior art reference, expressly / sufficiently discloses the above combination of features / elements, as currently recited by the amended independent claims. Accordingly, independent claim 1, and similarly the other independent claims (claims 14 and 20), are considered allowable over prior art.

The Office also notes and remarks that the instant application claims are considered allowable for generally the same rationale given to the allowance of related application 14/486,667 (now Patent 9,866,447) dated 6/2/2017.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenford Madamba whose telephone number is 571-272- 7989. The examiner can normally be reached on Monday-Friday 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Parry can be reached on 571-272-8328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, .contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GLENFORD J MADAMBA/
Primary Examiner, Art Unit 2451

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

CPC - Searched*		
Symbol	Date	Examiner
709/222.ccls. or H04L41/22.cpc. or G06F3/0481.cpc. or G06F3/0482.cpc. or G06F3/04842.cpc. or G06F3/04847.cpc. or H04L12/28.cpc. or H04L12/2803.cpc. or H04L12/2807.cpc. or H04L12/2809.cpc. or H04L41/0809.cpc. or H04L63/10.cpc. or H04L65/60.cpc. or H04L67/02.cpc. or H04L67/10.cpc. or H04L67/141.cpc. or H04W12/04.cpc. or H04W12/08.cpc.	05/01/2019	GJM

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
709	222	05/01/2019	GJM

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
DBs searched: USPAT, USPGPUB, USOCR, DERWENT, EPO, JPO, IBM-TDB	05/01/2019	GJM
Claim amendments / remarks received in response to non-final action issued, and amended independent claim 1 appears to be in condition for allowance. Updated search conducted, and no additional / pertinent candidate prior art found to fully / reasonably disclose the independent claims. Case is allowed.	09/16/2019	GJM

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
709/H04L41	222/28	09/16/2019	GJM

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	05/27/2019	09/16/2019							
1	1	✓	=							
2	2	✓	=							
3	3	✓	=							
4	4	✓	=							
5	5	✓	=							
6	6	✓	=							
7	7	✓	=							
8	8	✓	=							
9	9	✓	=							
10	10	✓	=							
11	11	✓	=							
12	12	✓	=							
13	13	✓	=							
14	14	✓	=							
15	15	✓	=							
16	16	✓	=							
17	17	✓	=							
18	18	✓	=							
19	19	✓	=							
20	20	✓	=							

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	**Art Unit**
	GLENFORD J MADAMBA	2451

CPC						
Symbol					**Type**	**Version**
H04L	/	41	/	22	F	2013-01-01
H04L	/	65	/	60	I	2013-01-01
G06F	/	3	/	04842	I	2013-01-01
G06F	/	3	/	0482	I	2013-01-01
H04L	/	63	/	20	I	2013-01-01
H04L	/	67	/	02	I	2013-01-01
H04L	/	67	/	10	I	2013-01-01
H04L	/	12	/	2809	I	2013-01-01
H04L	/	41	/	0809	I	2013-01-01
H04W	/	12	/	08	I	2013-01-01
H04W	/	12	/	003	I	2019-01-01
H04W	/	12	/	04	I	2013-01-01
H04L	/	63	/	10	I	2013-01-01
H04L	/	41	/	0803	I	2013-01-01
H04L	/	12	/	2807	I	2013-01-01
H04L	/	12	/	28	I	2013-01-01
G06F	/	3	/	0481	I	2013-01-01
G06F	/	3	/	04847	I	2013-01-01
H04L	/	67	/	141	I	2013-01-01
H04L	/	12	/	2803	I	2013-01-01
H04L	/	41	/	28	A	2013-01-01
H04L	/	63	/	0823	A	2013-01-01
H04W	/	84	/	12	A	2013-01-01
H04L	/	2012	/	2841	A	2013-01-01
H04L	/	2012	/	2849	A	2013-01-01
H04L	/	63	/	065	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	16 September 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20190916

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	**Art Unit**
	GLENFORD J MADAMBA	2451

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04L	/	12	/	24

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
709	222

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	16 September 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20190916

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	Examiner	**Art Unit**
	GLENFORD J MADAMBA	2451

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	10	10	19	19										
2	2	11	11	20	20										
3	3	12	12												
4	4	13	13												
5	5	14	14												
6	6	15	15												
7	7	16	16												
8	8	17	17												
9	9	18	18												

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	16 September 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office Part of Paper No.: 20190916

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	Glenford J. Madamba
Attorney Docket Number	05-0601-CON0319A

U.S.PATENTS Remove

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
	1	6686838		2004-02-03	REZVANI; Babak et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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]
	1	None						

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NON-PATENT LITERATURE DOCUMENTS Remove

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.	T[5]

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	05-0601-CON0319A

	1	None

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EXAMINER SIGNATURE

Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	09/16/2019

*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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	05-0601-CON0319A

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)	2019-08-15
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.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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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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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.

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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.

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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, Glenford J.
Attorney Docket Number	05-0601-CON0319A

U.S.PATENTS Remove

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
	1	None				

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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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NON-PATENT LITERATURE DOCUMENTS Remove

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.	T[5]

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

	1	Non-Final Office Action mailed on 30 May 2019, issued in connection with U.S. Patent Application No. 16/298542, filed on 11 March 2019, 22 pages.

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	09/16/2019

*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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
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A certification statement is not submitted herewith.

SIGNATURE

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Signature	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-08-05
Name/Print	Michael E. Coyne	Registration Number	58443

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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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	450103	709/222.ccls. or H04L41/22.cpc. or G06F3/0481.cpc. or G06F3/0482.cpc. or G06F3/04842.cpc. or G06F3/04847.cpc. or H04L12/28.cpc. or H04L12/2803.cpc. or H04L12/2807.cpc. or H04L12/2809.cpc. or H04L41/0809.cpc. or H04L63/10.cpc. or H04L65/60.cpc. or H04L67/02.cpc. or H04L67/10.cpc. or H04L67/141.cpc. or H04W12/04.cpc. or H04W12/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/16 13:59
L2	75	L1 and ssid and wep and (join$3, access$3) near3 secure near network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/16 14:03
L3	38	L2 and wlan	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/16 14:05
L4	242	((("MILLINGTON") near3 ("Nicholas")) OR (("HAINSWORTH") near3 ("Paul"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/09/16 14:06
L5	3	L4 and ssid and wep and (join$3, access$3) near3 secure near network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/16 14:06
S1	1985	709/220.ccls.	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:13
S2	2193	ad$1hoc adj network$1	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:13
S3	438682	(wired, wireless)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S4	1521	S2 and S3	USPAT; USOCR;	OR	ON	2009/01/09 12:14

			EPO; JPO; DERWENT			
S5	1082	S2 same S3	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S6	8	S5 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S7	29	S5 and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:17
S8	6	S7 and zone	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:18
S9	262	zone adj players	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:18
S10	4904	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:18
S11	728858	(wired, wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:19
S12	4102	S10 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:19
S13	2968	S10 same S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:19
S14	8	S13 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:19
S15	8	S14 and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:19
S16	29	S13 and WEP	USPAT; USOCR;	OR	ON	2009/01/09 12:20

			EPO; JPO; DERWENT			
S17	0	S9 and S16	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:20
S18	26	S9 and network	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:20
S20	8	(US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$).did.	USPAT; DERWENT	OR	ON	2009/01/13 13:01
S21	4909	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:26
S22	593	S21 and broadcast$3 near3 (period$6, interval$1, time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:27
S23	122	S21 and broadcast$3 adj (period$6, interval$1, time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:27
S24	0	S21 and broadcast$3 adj (period$6, interval$1, time) with expir$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:27
S25	2	S21 and broadcast$3 adj (period$6, interval$1, time) with (end$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:28
S26	7	S23 and (wep, ssid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:30
S27	0	zone adj player$1 same configur$5 with mode	US-PGPUB; USPAT; USOCR;	OR	ON	2009/01/13 17:04

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S28	18	zone adj player$1 same configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:04
S29	29	prob$3 near3 message and SSID and WEP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:10
S30	4	S29 and flag same broadcast	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:10
S31	0	broadcast adj storm same flag same probe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:12
S32	2	broadcast adj storm and flag same probe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:13
S33	0	configuration adj mode and zone adj player	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:14
S34	2308	configuration adj mode and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:14
S35	528	configuration adj mode same controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:14
S36	0	S35 and "zone player"	US-PGPUB;	OR	ON	2009/01/13

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:15
S37	0	S35 and "synchrony group"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:16
S38	266	S35 and group	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:16
S39	14	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/01/14 11:26
S40	2	zone adj player and (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 11:28
S41	1909	zone and (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 11:30
S42	153	zone same (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 11:30
S43	51	zone with (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 11:30
S44	447	zone adj players	US-PGPUB; USPAT; USOCR;	OR	ON	2009/11/06 15:34

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S45	5809	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:34
S46	1	S44 and S45	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:34
S47	101	S44 and network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:35
S48	79	S47 and (synchrony, group)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:36
S49	1404	zone near3 player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:46
S50	2	S45 and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:46
S51	12	S45 same zone with (player$1, device$1, terminal$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:47
S52	2085	controller and ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:52
S53	1707	S52 and (configur$5, synchroni$7)	US-PGPUB;	OR	ON	2009/11/06

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			15:53
S54	57	S53 and (synchroniz$7) near5 operation$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:54
S55	14	S54 and (broadcast$3) with (packet, data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:55
S56	2	"20080267218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 16:19
S57	22	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:16
S58	2	"6349352".pn.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:17
S59	23	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:19
S60	15	S59 and synchron$7	US-PGPUB; USPAT;	OR	ON	2009/11/25 15:20

			DERWENT			
S61	2	"20090259762"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:40
S62	51442	(zone, media) near3 player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:08
S63	20532	S62 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:08
S64	514	S63 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:08
S65	218	S64 and playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:09
S66	24	S65 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:09
S67	1599	zone near3 player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:15
S68	473	S67 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:15
S69	6	S68 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:15

S70	496	zone adj player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:16
S71	1	S70 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:16
S72	145	S70 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:16
S73	0	S72 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:17
S74	71	S72 and network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:17
S75	151	(audio, media) adj player$1 with zone$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:22
S76	93	S75 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:22
S77	0	S76 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:22
S78	0	S75 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2011/03/03 18:23

			DERWENT; IBM_TDB			
S79	0	S76 and IP near2 broadcast	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:24
S80	0	S76 and datagrams near2 prob$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:24
S81	22189	secure near2 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:21
S82	10665	(unsecure, ad$1hoc) near2 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:22
S83	978	S81 and S82	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:22
S84	0	S83 and zone near2 player$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:22
S85	509	zone adj players	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:22
S86	0	S85 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:23
S87	8495	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:23
S88	1	S85 and S87	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:23
S89	9	S85 and (secure, private) near2 network	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2011/10/11 12:25

			EPO; JPO; DERWENT; IBM_TDB			
S90	473	zone adj player$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:27
S91	94	S90 and (secure, ad$1hoc)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:28
S92	37	S91 and network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:28
S93	8	S92 and join$3	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:28
S94	29	S92 not S93	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:30
S95	0	S90 and "wep key"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:31
S96	0	S90 and "wired equivalent privacy"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:31
S97	2098	media near2 player with (zones, area)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:31
S98	3	S97 and "wired equivalent privacy"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:32
S99	45961	Home near2 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:33
S100	374	S99 and ("wired equivalent privacy", HHID)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:33
S101	374	S99 and ("wired equivalent privacy")	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:33
S102	0	S101 and HHID	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:33
S103	0	S99 and HHID	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:34
S104	67	S101 and join$3 near5 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:34
S105	61	S101 and join$3 near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:34
S106	27	S81 and S105	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:35
S107	39	S105 and (secure, private) near2 network	US-PGPUB; USPAT; USOCR;	OR	ON	2011/10/11 12:35

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S108	14	S82 and S107	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:35
S109	4	S108 and (media, playback, zone) near2 (device, terminal, apparatus)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:42
S110	31	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:48
S111	358248	(media, playback, zone) near2 (device, terminal, apparatus, player)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:20
S112	10969	S111 and home near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:20
S113	1507	S112 and zone$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:21
S114	34	S113 and WEP	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:21
S115	2	"20100245582"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:31
S116	743	wep and home near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:34
S117	98	S116 and zone$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:34
S118	10	S117 and join$4 near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:35
S119	0	S85 and WEp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2011/10/11 13:37

			IBM_TDB			
S120	665	home near2 network and WEP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:38
S121	357	S120 and (audio, music)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:38
S122	76	S121 and (connect44, join$4) near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:38
S123	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/13 15:40
S124	30	S123 and wired and wireless	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/13 15:40
S125	9	S123 and "network interface" same wired same wireless	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/13 15:43
S126	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/22 21:43

		or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.				
S127	16	S126 and configuration near3 (setting$1, information)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/22 21:44
S128	393	wep and request with configuration	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/23 00:47
S129	78	S128 and join$3 with network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/23 00:47
S130	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/06/12 14:09

		7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.				
S131	21	S130 and button	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/06/12 14:11
S132	5224	709/231.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:22
S133	4802	370/254.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:22
S134	0	S132 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S135	17	S133 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S136	2189	"L5" and (wired, wireless)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S147	77	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/03 17:04

S148	77	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 17:49
S150	19	S148 and wlan	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 17:50
S151	7	S148 and wlan with secure	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 17:50
S152	45	S148 and configuration	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 18:34
S153	1737	zone near2 players	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:20
S154	875	S153 and audio	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:20
S155	19	S154 and wlan	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:20
S156	531	networked with audio near3 system	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:22
S157	71	S156 and synchronized near3 playback	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:22
S158	39	S157 and (@ad<"20150604" or @rlad<"20050604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:23

S159	4	S157 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:24
S160	793	(media, zone) near2 players and synchronized with playback	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:26
S161	72	S156 and S160	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:26
S162	1	S161 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:26
S163	4974	(media, zone, audio) near2 players with (group$1, zone$1)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:27
S164	250	S163 and wlan	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 19:28
S165	27	S164 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:28
S166	310	S154 and grouping	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 19:31
S167	35	S166 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:31
S168	257	(media, audio) adj player near2 (zone$1, group$1, grouping$1)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:36
S169	505	(media, audio) adj player with player near2 (zone$1, group$1, grouping$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/15 19:36
S170	52	S169 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:37
S171	874	networked same audio near3 system	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:39
S172	265	S171 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:40
S173	419	S156 and (@ad<"20150604" or @rlad<"20050604")	USPAT; USOCR;	OR	ON	2019/05/15 19:40

			EPO; JPO; DERWENT			
S174	105	S173 and group$4 with player$1	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:40
S175	1	"20040168081"	US-PGPUB	OR	ON	2019/05/20 16:00
S176	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/20 17:37
S177	3	S176 and audio near2 (network, system) and playback near3 (device, terminal, ue)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/20 17:38
S178	2	"20020124097"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/20 17:39
S179	475824	709/222.ccls. or H04L41/22.cpc. or G06F3/0481.cpc. or G06F3/0482.cpc. or G06F3/04842.cpc. or G06F3/04847.cpc. or H04L12/28.cpc. or H04L12/2803.cpc. or H04L12/2807.cpc. or H04L12/2809.cpc. or H04L41/0809.cpc. or H04L63/10.cpc. or H04L65/60.cpc. or H04L67/02.cpc. or H04L67/10.cpc. or H04L67/141.cpc. or H04W12/04.cpc. or H04W12/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:20
S180	629	S179 and ssid and wep near2 (key, password)	US-PGPUB; USPAT;	OR	ON	2019/05/26 18:20

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S181	236	S180 and wlan	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:20
S182	51	S181 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:21
S183	51	S182 and access near2 point	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:21

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	1691	H04L41/28$2.cpc.	US-PGPUB; USPAT	OR	OFF	2019/09/16 14:07
L7	38	L6 and ssid and wep	US-PGPUB; USPAT	OR	ON	2019/09/16 14:08
L8	13	L7 and wlan	US-PGPUB; USPAT	OR	OFF	2019/09/16 14:08
L9	13	L8 and (join$3, access$3) near3 network	US-PGPUB; USPAT	OR	ON	2019/09/16 14:09
S137	6339	709/220.ccls.	US-PGPUB; USPAT	OR	OFF	2012/07/15 11:24
S138	3105	S137 and (wired, wireless)	US-PGPUB; USPAT	OR	ON	2012/07/15 11:25
S139	58	S138 and ssid and wep	US-PGPUB; USPAT	OR	ON	2012/07/15 11:25
S140	4	S139 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2012/07/15 11:25
S143	1080521	@ad >="20040606" and @ad<="20060606"	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S144	1141	S137 and S143	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S145	17	S144 and ssid and wep	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S146	1	S145 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29

9/16/2019 2:10:27 PM
C:\Users\gmadamba\Documents\EAST\Workspaces\16298515_2019-05-02_CON of

15091113.wsp

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	Glenford J. Madamba
Attorney Docket Number	05-0601-CON0319A

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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
	1	6686838		2004-02-03	REZVANI; Babak et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	1	None						

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	05-0601-CON0319A

	1	None

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EXAMINER SIGNATURE

Examiner Signature		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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	05-0601-CON0319A

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)	2019-08-15
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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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.

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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.

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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.

Electronic Patent Application Fee Transmittal

Application Number:	16298515
Filing Date:	11-Mar-2019
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Filer:	Brandon Jacob Kennedy/Jaden Knosher
Attorney Docket Number:	05-0601-CON0319A

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
		Total in USD ($)		**240**

Electronic Acknowledgement Receipt	
EFS ID:	36890062
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	15-AUG-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:35:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$240
RAM confirmation Number	E20198EH35491254
Deposit Account	506632
Authorized User	Brandon Kennedy
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	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_0_IDS_20190815171054.pdf	1053165 87912ad8ef9207526c8ab5a462d35e10d00e0f8a	no	4
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30437 15ef7d43a004de088845a3b731a871b868f9d4ce	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1083602		

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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.

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

U.S.PATENTS Remove

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
	1	None				

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	None				

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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]
	1	None						

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

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.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

	1	Non-Final Office Action mailed on 30 May 2019, issued in connection with U.S. Patent Application No. 16/298542, filed on 11 March 2019, 22 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, Glenford J.
	Attorney Docket Number	05-0601-CON0319A

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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-08-05
Name/Print	Michael E. Coyne	Registration Number	58443

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.**

Privacy Act Statement

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:

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.

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.

Electronic Acknowledgement Receipt	
EFS ID:	36784211
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	05-AUG-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:22:49
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	16298542_NFOA_05-0601-CON0319B_5-30-19_22pages.pdf	1404202 fa0b4ed8fe13d01b53638d5adab5690b918bb5bb	no	22
Warnings:					

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_0_IDS_20190805153039.pdf	1053213 5226499bcb017689dee439065b5253a80b330227	no	4
Warnings:					
Information:					
			Total Files Size (in bytes):	2457415	

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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.

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/25 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**
Application Number	16298515
Filing Date	11-Mar-2019
First Named Inventor	Nicholas Millington
Attorney Docket Number	05-0601-CON0319A
Title of Invention	Playback Device Connection

☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

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

Owner	Percent Interest
Sonos, Ind.	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)

16298542 filed on 03/11/2019

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.

◉ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

○ 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.	
Applicant 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 67894 ○ 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	/Brandon J. Kennedy/
Name	Brandon J. Kennedy

*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:	16298515
Filing Date:	11-Mar-2019
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Filer:	Brandon Jacob Kennedy
Attorney Docket Number:	05-0601-CON0319A

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.: 16298515

Filing Date: 11-Mar-2019

Applicant/Patent under Reexamination: Millington

Electronic Terminal Disclaimer filed on August 5, 2019

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt	
EFS ID:	36786726
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	05-AUG-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:17:50
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	E201985H17463848
Deposit Account	506632
Authorized User	Brandon Kennedy
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	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33922 116f3d7e64a0712c306caeb10d1e4a9d5b7c2b81	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30437 c8a547cbdbf0144785e940d28ec6838e8bad76af	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	64359		

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Case No. 05-0601-CON0319A

In re Application of:	
Sonos, Inc.	Confirmation No.: 7686
Serial No.: 16/298,515	Examiner: Glenford J. Madamba
Filing Date: March 11, 2019	Group Art Unit: 2451
Title: Playback Device Connection	

RESPONSE TO NON-FINAL OFFICE ACTION
MAILED MAY 30, 2019

In response to the Non-Final Office Action mailed May 30, 2019, Applicant submits the following amendments and remarks.

Claim Amendments begin at page 2.

Remarks begin at page 10.

Applicant believes that all fees required for the present response have been filed during the electronic filing process. Applicant authorizes the office to charge any underpayment or credit any overpayment to Deposit Account No. 506632, and to treat any filing in this matter that requires an extension of time as incorporating a request for the extension.

CLAIM AMENDMENTS

1. (Currently Amended) A playback device comprising:

a network interface that is configured to provide an interconnection with at least one data network;

at least one processor;

a non-transitory computer-readable medium; and

program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

detecting a triggering event that causes the playback device to enter a setup mode in which the playback device transmits at least a first message indicating that the playback device is available for setup;

while in the setup mode, receiving a response to the first message that facilitates establishing an initial communication path with a computing device that is installed with an application for controlling the playback device, wherein the computing device is operating on a secure wireless local area network (WLAN) that is defined by an access point, wherein the initial communication path with the computing device does not traverse the access point ~~is outside of the secure WLAN~~;

receiving, from the computing device via the initial communication path, at least a second message containing network configuration parameters for the secure WLAN, wherein the network configuration parameters comprise an identifier of the secure WLAN and a security key for the secure WLAN;

using the network configuration parameters to connect to the secure WLAN that is defined by the access point; and

transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure WLAN that is defined by the access point.

2. (Original) The playback device of claim 1, wherein the triggering event comprises one of (a) powering on the playback device or (b) receiving user input via a physical interface of the playback device.

3. (Original) The playback device of claim 1, wherein the computing device comprises a controller device of a networked audio system.

4. (Original) The playback device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

after receiving the second message, providing an indication that the playback device has successfully received the network configuration parameters for the secure WLAN.

5. (Currently Amended) The playback device of claim 4, wherein providing the indication comprises transmitting, to the computing device via the initial communication path, at least a third message indicating that the playback device has successfully received the network configuration parameters[[;]].

6. (Original) The playback device of claim 4, wherein providing the indication comprises providing an indication that the playback device has successfully connected to the secure WLAN using the network configuration parameters.

7. (Original) The playback device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

after connecting to the secure WLAN, establishing a new networked audio system on the secure WLAN.

8. (Original) The playback device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

after connecting to the secure WLAN, joining an existing networked audio system operating on the secure WLAN.

9. (Original) The playback device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

receiving, from the computing device, a command to assign a name to the playback device.

10. (Original) The playback device of claim 1, wherein communicating with the computing device via the secure WLAN comprises receiving a command related to playback of audio content.

11. (Original) The playback device of claim 10, wherein the command comprises a command to retrieve audio content for playback from an audio source that is accessible via a communication path that includes the secure WLAN, and wherein the playback device further comprises program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

in response to receiving the command, retrieving the audio content from the audio source via the communication path that includes the secure WLAN.

12. (Original) The playback device of claim 1, wherein the second message comprises a command for the playback device to adopt the network configuration parameters.

13. (Original) The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising:

after transitioning to communicating with computing device via the secure WLAN, receiving, from the computing device, a command to form a group with at least a first playback device of a networked audio system such that the playback device is configured to play back audio content in synchrony with at least the first playback device.

14. (Currently Amended) A non-transitory, computer-readable storage medium, wherein the non-transitory computer-readable storage medium is provisioned with program instructions that are executable to cause a playback device to perform functions comprising:

detecting a triggering event that causes the playback device to enter a setup mode in which the playback device transmits at least a first message indicating that the playback device is available for setup;

while in the setup mode, receiving a response to the first message that facilitates establishing an initial communication path with a computing device that is installed with an application for controlling the playback device, wherein the computing device is operating on a secure wireless local area network (WLAN) that is defined by an access point, wherein the initial communication path with the computing device does not traverse the access point ~~is outside of the secure WLAN~~;

receiving, from the computing device via the initial communication path, at least a second message containing network configuration parameters for the secure WLAN, wherein the network configuration parameters comprise an identifier of the secure WLAN and a security key for the secure WLAN;

using the network configuration parameters to connect to the secure WLAN that is defined by the access point; and

transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure WLAN that is defined by the access point.

15. (Original) The non-transitory, computer-readable storage medium of claim 14, wherein the triggering event comprises one of (a) powering on the playback device or (b) receiving user input via a physical interface of the playback device.

16. (Original) The non-transitory, computer-readable storage medium of claim 14, wherein the non-transitory computer-readable medium is also provisioned with program instructions that are executable to cause the playback device to perform functions comprising:

after receiving the second message, providing an indication that the playback device has successfully received the network configuration parameters for the secure WLAN.

17. (Currently Amended) The non-transitory, computer-readable storage medium of claim 16, wherein providing the indication comprises transmitting, to the computing device via the initial communication path, at least a third message indicating that the playback device has successfully received the network configuration parameters[[;]].

18. (Original) The non-transitory, computer-readable storage medium of claim 16, wherein providing the indication comprises providing an indication that the playback device has successfully connected to the secure WLAN using the network configuration parameters.

19. (Original) The non-transitory, computer-readable storage medium of claim 14, wherein communicating with the computing device via the secure WLAN comprises receiving a command to retrieve audio content for playback from an audio source that is accessible via a communication path that includes the secure WLAN, and wherein the non-transitory computer-

readable medium is also provisioned with program instructions that are executable to cause the playback device to perform functions comprising:

in response to receiving the command, retrieving the audio content from the audio source via the communication path that includes the secure WLAN.

20. (Currently Amended) A method comprising:

detecting a triggering event that causes the playback device to enter a setup mode in which the playback device transmits at least a first message indicating that the playback device is available for setup;

while in the setup mode, receiving a response to the first message that facilitates establishing an initial communication path with a computing device that is installed with an application for controlling the playback device, wherein the computing device is operating on a secure wireless local area network (WLAN) that is defined by an access point, wherein the initial communication path with the computing device does not traverse the access point ~~is outside of the secure WLAN~~;

receiving, from the computing device via the initial communication path, at least a second message containing network configuration parameters for the secure WLAN, wherein the network configuration parameters comprise an identifier of the secure WLAN and a security key for the secure WLAN;

using the network configuration parameters to connect to the secure WLAN that is defined by the access point; and

transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure WLAN that is defined by the access point.

REMARKS

1. Summary of the Office Action

In the Non-Final Office action dated May 30, 2019, ("the Action") the Examiner rejected claims 1-20 on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 1-20 of co-pending application 16/298,542. The Examiner also rejected claims 1, 2, 4-6, 12, 14-18, and 20 under 35 USC 102(e) as being anticipated by US Patent Pub. 2004/0168081 ("Ladas"). The Examiner also rejected claims 3, 7, 8, 10, 11, 13, and 19 under 35 U.S.C. 103 as allegedly unpatentable over Ladas in view of U.S. Pub. 2002/0124097 ("Isley"). The Examiner also rejected claim 9 under 35 U.S.C. 103 as allegedly unpatentable over Ladas in view of U.S. Pub. 2004/0133689 ("Vasisht").

2. Summary of Examiner Interview

A telephonic examiner interview took place on July 18, 2019. Participants included Examiner Glenford Madamba and Applicant's representative Brandon Kennedy. During the interview, the participants discussed the rejections of the claims as well as suggested amendments to the claims. The Examiner indicated that the currently proposed amendments appeared to overcome the cited reference, but that further search would be required. No agreement regarding allowance was reached. Applicant thanks the Examiner for his time in conducting the interview.

3. Status of the Claims

Without conceding the merits of the claim rejections, Applicant has amended claims 1, 5, 14, 17, and 20. Claims 1-20 are pending. Support for the claim amendments can be found generally throughout Applicant's specification, including at least paragraphs [0008], [0032],

[0034], [0036], [0039], [0051], [0052], [0056], [0079]. No new matter has been added by way of these amendments.

4. Response to the Double Patenting Rejections

Applicant respectfully requests that the double patenting rejections be held in abeyance until the claims of the present application have been allowed.

5. Response to Rejections of Claims 1, 14, and 20 under 35 U.S.C. § 102

As noted above, the Examiner rejected independent claims 1, 14 and 20 under § 102 as anticipated by Ladas. However, Applicant submits that Ladas does not teach at least "while in the setup mode, receiving a response to the first message that facilitates establishing an initial communication path with a computing device that is installed with an application for controlling the playback device, wherein the computing device is operating on a secure wireless local area network (WLAN) that is defined by an access point but the initial communication path with the computing device does not traverse the access point" in combination with the other elements of amended claims 1, 14 and 20.

In the Action, the Examiner equated the access point 102 in Ladas to the "computing device" of Applicant's claims. (Action at p. 6). For example, the Examiner points to paragraph [0041] in Ladas for the discussion of a "temporary alternate network" (Action at p. 6), which the Examiner has construed as the "initial communication path" of Applicant's claims. Ladas states that "[a] new temporary alternate network used only while joining the computing device to the secure wireless network is created in a step 404; this alternate network is used only by the access device and the computing device when joining the computing device to the normal secure network." Ladas at [0041].

Ladas also states that "[t]he computing device then uses the SSID and WEP key that it received from the access point to make a connection to the wireless network in a step 222. The access point . . . accepts the connection in a step 224 so that the computing device is now joined to the secure wireless network." *Id.* at [0039]. Thus, the connection to the secure wireless network in Ladas is another connection to the access point 102, which can be seen visually in Figure 5 (i.e., "CONNECT" at steps 222 and 224). The same is shown in Figure 6, at steps 322 and 324.

This arrangement in Ladas cannot anticipate Applicant's claims, as amended. In particular, Applicant's claims include "the computing device is operating on a secure wireless local area network (WLAN) that is defined by an access point but the initial communication path with the computing device does not traverse the access point." Accordingly, the access point 102 of Ladas cannot be construed as both the "access point" and the "computing device" in Applicant's claims.

Because Ladas does not teach every element of independent claims 1, 14, and 20, Ladas does not anticipate claims 1, 14, and 20. Consequently, Applicant requests withdrawal of the 102 rejections of claims 1, 14, and 20 over the cited references, and submits that claims 1, 14, and 20 should be allowed. Further, Applicant submits that dependent claims 2-13 and 15-19 should be allowed as well for at least the reason that they each depend from an allowable independent claim.

6. Conclusion

For at least the foregoing reasons, Applicant submits that the claims are in condition for allowance. Applicant thus respectfully requests favorable reconsideration and allowance of the claims. Applicant does not acquiesce in any assertion by the Examiner that is not expressly

addressed by these remarks. Should the Examiner wish to discuss this case, the Examiner is encouraged to call the undersigned at (312) 754-9315.

Respectfully submitted,

LEE SULLIVAN SHEA & SMITH LLP

Date: July 22, 2019

By: /Brandon J. Kennedy/
Brandon J. Kennedy
Reg. No. 67,894

Electronic Acknowledgement Receipt	
EFS ID:	36648459
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Brandon Jacob Kennedy
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		05-0601-CON0319A_Response_to_Non Final_OA.pdf	126124 88cb52f8c5e3690ef46c7b262730daf6941864e4	yes	13

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	9
	Applicant Arguments/Remarks Made in an Amendment	10	13
Warnings:			
Information:			
	Total Files Size (in bytes):	126124	

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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.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A

CONFIRMATION NO. 7686

135176
LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

PUBLICATION NOTICE

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NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

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In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

EXAMINER	
MADAMBA, GLENFORD J	

ART UNIT	PAPER NUMBER
2451	

NOTIFICATION DATE	DELIVERY MODE
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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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ls3_docketing@cardinal-ip.com
york@ls3ip.com

Office Action Summary	**Application No.** 16/298,515	**Applicant(s)** Millington et al.	
	Examiner GLENFORD J MADAMBA	**Art Unit** 2451	**AIA (FITF) Status** No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 11 March 2019.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-20 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Double Patenting

1. The non-statutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington,* 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a non-statutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-20 of the instant application {hereinafter Millington '515} are rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable

over claims 1-20 of co-pending application to Millington et al, U.S. Patent Application 16/298,542 {hereinafter Millington '542}. Although the conflicting claims are not identical, they are not patentably distinct from each other.

The subject matter claimed in the instant application is technically disclosed in the co-pending application since the instant application and the co-pending application are claiming common and/or overlapping subject matter. Claims 1, 14, 20 of the instant application and independent claims 1, 13 and 20 of the co-pending application both recite, in part, a playback device performing functions comprising "detecting a triggering event that causes the playback device to enter a setup mode in which the playback device transmits at least a first message indicating that the playback device is available for setup; while in the setup mode, receiving a response to the first message that facilitates establishing an initial communication path with a computing device operating on a secure wireless local area network (WLAN), wherein the initial communication path is outside of the secure WLAN; receiving, from the computing device via the initial communication path, at least a second message containing network configuration parameters for the secure WLAN, wherein the network configuration parameters comprise an identifier of the secure WLAN and a security key for the secure WLAN; using the network configuration parameters to connect to the secure WLAN; and transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure WLAN".

Claims 1-20 of the instant application are drawn to the same invention as that recited by co-pending application to Millington '542; however, claims 1, 13 and 20 of the

co-pending application {Millington '542} recites the added feature(s) of "**while operating on a secure wireless local area network (WLAN), (a) receiving user input indicating that a user wishes to set up a playback device to operate on the secure WLAN and (b) receiving a first message indicating that a given playback device is available for setup**". Claims 1-20 of the co-pending application accordingly anticipates all of the limitations and features recited by claims 1-20 of the instant application {Millington '515}.

In removing these limitations {in the co-pending application}, the scope of the claim(s) is merely broadened by eliminating elements and their functions. It has been held that omission of an element and its function is an obvious expedient if the remaining elements perform the same function as before. In re Karlson, 136 USPQ 184 (CCPA). Also note Ex parte Rainu, 168 USPQ 365 (Bd. App. 1969) (omission of a reference element whose function is not needed would be obvious to one skilled in the art).

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims **1, 2, 4, 5, 6, 12, 14, 15, 16, 17, 18, 20** are rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by **Ladas** et al (hereinafter Ladas), U.S. Patent Publication 2004/0168081 A1.

As per claim(s) **1, 14, 20,** Ladas discloses particular features of the invention, such as a **playback device comprising:**

a network interface that is configured to provide an interconnection with at least one data network (Ladas: e.g., *Network Interface*_53) [0028] [Fig. 1];

at least one processor (Ladas: e.g., *Processing Unit*_21) [0026] [Fig. 1];

a non-transitory computer-readable medium (Ladas: e.g., 'computer-readable media', such as ROM 24, RAM 25, etc.) [0025] [Fig. 1]; **and**

program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions (Ladas: e.g., *Program Data_38*) [0025] [Fig. 1] **comprising:**

detecting a triggering event that causes the playback device to enter a setup mode (Ladas: e.g., expressly teaches / illustrates in one aspect a **User 'pressing a BIND button'_124 on wireless network interface device_120 of the computing device** to be joined to the 'secure wireless network' ...") [0038] (step 202) [Fig. 5] **in which the playback device transmits at least a first message indicating that the playback device is available for setup** (e.g., "**a *'bind signal'* 206 is transmitted to the access point"** in response to the bind control being activated on

the computing device that the user wants to join to the secure wireless network) [0039] [Figs. 2 & 5];

while in the setup mode, receiving a response to the first message that facilitates establishing an initial communication path with a computing device operating on a secure wireless local area network (WLAN) (Ladas: e.g., expressly teaches in one aspect that "Accordingly, **the access point transmits a '*bind signal*' 212 back to the computing device** that is to join the secure wireless network…") [0039] [Fig. 5]**, wherein the initial communication path is outside of the secure WLAN** (Ladas: e.g., expressly teaches / illustrates in one aspect that "Either a user of the computing device, or a person authorized to control access to the secure network can initiate a bind step to enable the computing device to join the network, and a **'temporary alternate network'** is then created between an access point of the network and the computing device network interface card (NIC)…") [Abstract] (e.g., additionally / expressly teaches that in response to the user pressing the BIND button, "a 'new ***temporary alternate network*' used only while joining the computing device to the secure wireless network is created** in a step 404; this **'alternate network' is used only by the access device and the computing device when joining the computing device to the 'normal secure network'**…") [0041] [Figs. 5 & 6] (e.g., **'*Join Temp Network*' 410**) [0043] [Fig. 4];

receiving, from the computing device via the initial communication path, at least a second message containing network configuration parameters for the secure WLAN, wherein the network configuration parameters comprise an identifier of the secure WLAN and a security key for the secure WLAN (Ladas: e.g.,

expressly teaches in one aspect that "next, a step 214 carries out a 'key exchange' to initiate a secure transmission from the access point to the computing device. The 'key exchange' produces an encryption key enabling the access point to transmit an **'encrypted message'** that conveys the '***SSID'*** and '***WEP key'*** to the computing device in a step 216…") [0039] (e.g., '***Key Exchange'_214*** / '***WEP Key'_216*** messages) [Fig. 5];

using the network configuration parameters to connect to the secure WLAN (Ladas: e.g., expressly discloses that in step 218, the computing device decrypts the received SSID and WEP key messages and '**acknowledges'** receipt of these parameters) [0039] (e.g., '***ACK'_218***) [Fig. 5] (e.g., expressly discloses / illustrates wherein **the computing device receives the transmitted {secure} 'network credentials' {s420}, '*Decodes Correct Network Credentials* {SSID / WEP Key} *& Attempts to Join the* {Secure} *Network'* {s422}**) [Fig. 7] [0044]; **and**

and transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure WLAN (Ladas: e.g., expressly discloses that "In step 430, the computing device is joined to the secure wireless network. Accordingly, the access point responds to the acknowledgement from step 428, and in step 432 'restarts the secure wireless network' with the correct network credentials (e.g., SSID and WEP key, or the WPA key) that were previously provided to the computing device. **Thereafter, the computing device begins normal operation in a step 434, being now able to communicate with each of the other computing devices that are on the 'secure wireless network**'…") [0044] (e.g., ***'Join Completed Network'_218 / 'Restart***

Network with Correct Network Credentials'_432 → 'Begin Normal Operations'_434) [Fig. 7].

Claim(s) **14, 20** recite(s) substantially the same limitations as claim 1, is/are distinguishable only by its/their statutory category (computer-readable media, method), and accordingly rejected on the same basis.

As per claim(s) **2, 15,** Ladas discloses the device **wherein the triggering event comprises one of (a) powering on the playback device or (b) receiving user input via a physical interface of the playback device** (Ladas: e.g., expressly teaches / illustrates in one aspect **a User 'pressing a BIND button' 124 on wireless network interface device 120 of the computing device** to be joined to the 'secure wireless network' ...") [0038] (step 202) [Fig. 5].

Claim(s) **15** recite(s) substantially the same limitations as claim 2, is/are distinguishable only by its/their statutory category (computer-readable media, method), and accordingly rejected on the same basis.

As per claim(s) **4, 16,** Ladas discloses the device **further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:**

after receiving the second message, providing an indication that the playback device has successfully received the network configuration parameters for the secure WLAN (Ladas: e.g., expressly discloses that in step 218, the computing

device decrypts the received SSID and WEP key messages and '**acknowledges'** receipt of these parameters) [0039] (e.g., '***ACK'_218***) [Fig. 5].

Claim(s) **16** recite(s) substantially the same limitations as claim 4, is/are distinguishable only by its/their statutory category (computer-readable media, method), and accordingly rejected on the same basis.

As per claim(s) **5, 17,** Ladas discloses the device **wherein providing the indication comprises transmitting, to the computing device via the initial communication path, at least a third message indicating that the playback device has successfully received the network configuration parameters** (Ladas: e.g., expressly discloses that in step 218, the computing device decrypts the received SSID and WEP key messages and '**acknowledges'** receipt of these parameters) [0039] (e.g., '***ACK'_218***) [Fig. 5].

Claim(s) **17** recite(s) substantially the same limitations as claim 5, is/are distinguishable only by its/their statutory category (computer-readable media, method), and accordingly rejected on the same basis.

As per claim(s) **6, 18,** Ladas discloses the device **wherein providing the indication comprises providing an indication that the playback device has successfully connected to the secure WLAN using the network configuration parameters** (Ladas: e.g., expressly discloses that "**the computing device transmits an 'acknowledgement' to the access point in step 426, and in response, the access point transmits an acknowledgement back to the computing device in step 428**.

In step 430, the computing device is 'joined' to the secure network. Accordingly, the access point responds to the acknowledgement from step 428, and in step 432 'restarts the secure wireless network' with the correct network credentials (e.g., SSID and WEP key, or the WPA key) that were previously provided to the computing device. **Thereafter, the computing device begins 'normal operation' in a step 434, being now able to communicate with each of the other computing devices that are on the 'secure wireless network'**...") [0044] (e.g., '**ACK'_426 → ACK 428 →*'Join Completed Network'_218 / 'Restart Network with Correct Network Credentials'_432 → 'Begin Normal Operations'_434***) [Fig. 7].

Claim(s) **18** recite(s) substantially the same limitations as claim 6, is/are distinguishable only by its/their statutory category (computer-readable media, method), and accordingly rejected on the same basis.

As per claim(s) **12,** Ladas discloses the device **wherein the second message comprises a command for the playback device to adopt the network configuration parameters** (Ladas: e.g., expressly discloses / illustrates in one aspect wherein the *Access Point* performs a ***'Key Exchange' {s214}*** with the computing device attempting to join the secure network and further transmits an '**encrypted message**' including a **WEP Key / SSID** {secure network credentials} **{s216}** for the computing device to 'decode / apply' in joining the secure network) [0039] [Fig. 5] (e.g., expressly discloses / illustrates wherein the computing device receives the transmitted {secure} 'network credentials' {s420}, '***Decodes Correct Network Credentials* {SSID / WEP Key} *& Attempts to Join the*** {Secure} ***Network'* {s422}**) [Fig. 7] [0044].

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims **3, 7, 8, 10, 11, 13, 19** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Ladas** in view of **Isley** et al (hereinafter Isley), US Patent Publication 2002/0124097 A1

As per claim(s) **3,** while Ladas discloses features of the invention as above, he does not explicitly disclose the additional recited feature{s} of the computing device **wherein the computing device comprises a *controller device* of a networked audio system**. Nonetheless, the said feature(s) is/are expressly disclosed by Isley in a related endeavor.

Isley discloses as his invention a system and method for dynamic distribution of 'audio signals' at a 'site' {i.e., local network, such as a '**home audio system'**} based on defined zones with the site [Isley: Abstract] [0011] [Fig. 1]. In particular, Isley discloses disclose the additional recited feature{s} of the computing device **wherein the computing device comprises a *controller device* of a networked audio system** (Isley: e.g., '***Controller'_125***) [Fig. 1] (e.g., expressly teaches in one aspect that "**user**

device 130 in combination with the Controller 125, provides a user interface configured to receive a user designation of aggregations of the audio equipment 145, 150... **The Controller operates to designate the associated identifiers to be received by respective ones of the plurality of network attached audio devices 105**...") [0039] (e.g., additionally / expressly teaches that "a ***Zone manager 315* 'defines' a plurality of zones for the site**. The 'zones' may include '**one**' {or a plurality} **of the individual addressable audio devices** included in the illustrated block of *network audio devices 305*...") [0047] [Fig. 3] (e.g., 'The Zone manager defines a relationship between a reference audio device and for the addressable radio devices in the zones...") [Abstract] Fig. 4] [0055].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify and/or combine Ladas's invention with the above said additional feature, as disclosed by Isley, for the motivation of providing a system and method for dynamic distribution of 'audio signals' at a 'site' {i.e., a '**home audio system**'} based on defined zones with the site [Isley: Abstract] [0011].

As per claim(s) **7,** while Ladas discloses features of the invention as above, he does not explicitly disclose the additional recited feature{s} of the computing device performing functions further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising: **after connecting to the secure WLAN, establishing a new networked audio system on the secure WLAN**.

Nonetheless, the said feature(s) is/are expressly disclosed by Isley in a related endeavor.

Isley discloses as his invention a system and method for dynamic distribution of 'audio signals' at a 'site' {i.e., local network, such as a '**home audio system'**} based on defined zones with the site [Isley: Abstract] [0011] [Fig. 1]. In particular, Isley discloses disclose the additional recited feature{s} of the computing device performing functions further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising: **after connecting to the secure WLAN, establishing a new networked audio system on the secure WLAN** (Isley: e.g., ***Networked Audio Device_105 / 205*** of a **'Home Audio System'**, which may be a '**MP3 player'**, for example) [0004] [0008] [Fig. 2] (e.g., expressly teaches i one aspect that "a *Zone manager 315* 'defines' a plurality of zones for the site. The 'zones' may include '**one'** {or a plurality} **of the individual addressable audio devices** included in the illustrated block of *network audio devices 305*...") [0047] [Fig. 3] (e.g., '**Channel 1' *Network Audio Device*_405**) [Fig. 4] [0055].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify and/or combine Ladas's invention with the above said additional feature, as disclosed by Isley, for the motivation of providing a system and method for dynamic distribution of 'audio signals' at a 'site' {i.e., a '**home audio system'**} based on defined zones with the site [Isley: Abstract] [0011].

As per claim(s) **8,** Ladas in view of Isley discloses substantial features of the invention as above. In particular, Isley discloses the additional recited feature(s) of the computing device performing function further comprising **after connecting to the secure WLAN, joining an existing networked audio system operating on the secure WLAN** (Isley: e.g., expressly teaches that in dynamically defining aggregate {audio} 'zones'**, the system can 'add'** {or remove} ***Audio devices_105* to** {or from} **groups of virtual zones**..") [0040] [Fig. 1] (e.g., additionally / expressly discloses in one aspect that "Channels can be added or removed from the virtual zone in some embodiments of the present invention by dynamically configuring '**additional *audio devices*'** to belong to the same network group..") [0057] [Fig. 4] (e.g., '**Channels 2-4' *Network Audio Devices*_405**) [Fig. 4].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify and/or combine Ladas's invention with the above said additional feature, as disclosed by Isley, for the motivation of providing a system and method for dynamic distribution of 'audio signals' at a 'site' {i.e., a '**home audio system'**} based on defined zones with the site [Isley: Abstract] [0011].

As per claim(s) **10,** Ladas in view of Isley discloses substantial features of the invention as above. In particular, Isley discloses the additional recited feature(s) of the computing device **wherein communicating with the computing device via the secure WLAN comprises receiving a command related to playback of audio content** (Isley: e.g., expressly teaches that "the network interface 100 or audio interface 320 may, thus, dynamically designate respective ones of the addressable audio devices for inclusion in

an aggregation of groups of audio equipment (block 525). Furthermore, one of the **'identifiers' associated with a digital audio stream** to be received by the respective addressable audio devices in the group **may be provided** (block 525). **The 'selection' of a digital audio stream to which each audio device in a group will "tune" may be provided to the OSGi 350 as part of a received 'user designation'** {command} at block 520. ...") [0060] [Fig. 5].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify and/or combine Ladas's invention with the above said additional feature, as disclosed by Isley, for the motivation of providing a system and method for dynamic distribution of 'audio signals' at a 'site' {i.e., a '**home audio system**'} based on defined zones with the site [Isley: Abstract] [0011].

As per claim(s) **11, 19,** Ladas in view of Isley discloses substantial features of the invention as above. In particular, Isley discloses the additional recited feature(s) of the computing device **wherein the command comprises a command to retrieve audio content for playback from an audio source that is accessible via a communication path that includes the secure WLAN** (Isley: e.g., '***Audio Source(s)'_110, 330***) [Figs. 1 & 3] (e.g., additionally / expressly teaches that "the network interface 100 or audio interface 320 may dynamically designate respective ones of the addressable audio devices for inclusion in an aggregation of 'groups' of audio equipment (block 525). Furthermore, one of the **'*identifiers*' associated with a digital audio stream** to be received by the respective addressable audio devices in the group **may be provided** (block 525). **The 'selection' of a digital audio stream to which each audio device in**

a group will "tune" may be provided to the OSGi 350 as part of a received 'user designation' {command} at block 520 ...") [0060] [Figs. 1, 3 & 4-5], and **wherein the playback device further comprises program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising: in response to receiving the command, retrieving the audio content from the audio source via the communication path that includes the secure WLAN** (Isley: e.g., expressly illustrates in one aspect '*Room 1 Audio Equipment*' outputting audio content from 'Channel 1' audio source, '*Room 2 Audio Equipment*' outputting audio content from 'Channel 2', '*Room 3 Audio Equipment*' outputting audio content from 'Channel 3', etc.) [Fig. 4] (e.g., "Each of the Network Addressable Audio Devices_405 'defines a channel' which operates to drive associated Audio Equipment 450, such as 'speakers' located in respective 'rooms' of a residence...") [0055] (e.g., '***Designate Audio Devices_525 → Receive Audio Stream over Local Network_530 → Output Audio_535***) [Fig. 5].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify and/or combine Ladas's invention with the above said additional feature, as disclosed by Isley, for the motivation of providing a system and method for dynamic distribution of 'audio signals' at a 'site' {i.e., a '**home audio system**'} based on defined zones with the site [Isley: Abstract] [0011].

Claim(s) **19** recite(s) substantially the same limitations as claim 11, is/are distinguishable only by its/their statutory category (computer-readable media, method), and accordingly rejected on the same basis.

As per claim(s) **13,** Ladas in view of Isley discloses substantial features of the invention as above. In particular, Isley discloses the additional recited feature(s) of the computing device further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising **after transitioning to communicating with computing device via the secure WLAN, receiving, from the computing device, a command to form a group with at least a first playback device of a networked audio system such that the playback device is configured to play back audio content in synchrony with at least the first playback device** (Isley: e.g., expressly teaches in one aspect that "the ***User Interface device 130***, in combination with the ***Controller 125***, provides a '*user interface*' configured to receive a **user designation of 'aggregations'** {groupings} **of the audio equipment 145**, 150 located at the site so as to provide '**dynamic zone aggregation**'. ***Controller 125*** operates to *designate* the 'associated identifiers' to be received by respective ones of the plurality of network attached audio devices 105. **In other words,** the ***Controller 125*** **essentially 'tells' the *network audio devices 105* the "channel" to which they should tune**. **The *controller 125* makes this 'designation'** *based on* the '**user designation**' from the ***user device 130*** to provide 'dynamic zone aggregation'. Thus, '**individual ones' of the network attached audio devices may be '*grouped*' together and *'instructed'* to listen to the '*same* channel' to provide '*common* audio signals' to multiple rooms in a house, while 'other groupings' of the *network attached audio devices 105* may be 'assigned a different channel' to**

provide a 'different audio signal source' in another set of rooms within the residence...") [0039] [Fig. 1].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify and/or combine Ladas's invention with the above said additional feature, as disclosed by Isley, for the motivation of providing a system and method for dynamic distribution of 'audio signals' at a 'site' {i.e., a '**home audio system**'} based on defined zones with the site [Isley: Abstract] [0011].

3. Claim **9** is rejected under 35 U.S.C. 103(a) as being unpatentable over **Ladas** in view of **Vasisht** et al (hereinafter Vasisht), US Patent Publication 2004/0133689 A1

As per claim(s) **9,** while Ladas discloses features of the invention as above, he does not explicitly disclose the additional recited feature{s} of the computing device further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising **receiving, from the computing device, a command to *assign a name* to the playback device**. Nonetheless, the said feature(s) is/are expressly disclosed by Vasisht in a related endeavor.

Vasisht discloses as his invention a system and method for automatically configuring a communications network for a user, including the instantiation of a communications network and automatically generating a plurality of unique network configurations settings for one or more network devices of the communications network [Vasisht: Abstract] [0024-0025] [Figs. 2 & 4]. In particular, Vasisht discloses the

additional recited feature{s} of the computing device further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising **receiving, from the computing device, a command to *assign a name* to the playback device** (Vasisht: e.g., expressly teaches in one aspect **'Entering a *Unique Node Name* for the Node device'_s424**) [0092].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify and/or combine Ladas's invention with the above said additional feature, as disclosed by Vasisht, for the motivation of providing a system and method for automatically installing and configuring a communications network for a user, such as a 'home network', Small Office and Home Office {SOHO} networks, and the like [Vasisht: Abstract] [0003] [0024].

Claim(s) **17** recite(s) substantially the same limitations as claim 8, is/are distinguishable only by its/their statutory category (computer-readable media, method), and accordingly rejected on the same basis.

Conclusion

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to GLENFORD J MADAMBA whose telephone number is (571)272-7989. The examiner can normally be reached on Monday through Friday 9am-5pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Parry can be reached on 571-272-8328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GLENFORD J MADAMBA/

Primary Examiner, Art Unit 2451

Notice of References Cited	Application/Control No. 16/298,515	Applicant(s)/Patent Under Reexamination Millington et al.	
	Examiner GLENFORD J MADAMBA	Art Unit 2451	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20040168081-A1	08-2004	Ladas, Corey M.	H04L63/0428	726/8
*	B	US-20020124097-A1	09-2002	Isely, Larson J.	H04H60/95	709/231
*	C	US-20040133689-A1	07-2004	Vasisht, Samrat	H04L29/12216	709/228
	D					
	E					
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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
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	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

CPC - Searched*		
Symbol	Date	Examiner
709/222.ccls. or H04L41/22.cpc. or G06F3/0481.cpc. or G06F3/0482.cpc. or G06F3/04842.cpc. or G06F3/04847.cpc. or H04L12/28.cpc. or H04L12/2803.cpc. or H04L12/2807.cpc. or H04L12/2809.cpc. or H04L41/0809.cpc. or H04L63/10.cpc. or H04L65/60.cpc. or H04L67/02.cpc. or H04L67/10.cpc. or H04L67/141.cpc. or H04W12/04.cpc. or H04W12/08.cpc.	05/01/2019	GJM

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
709	222	05/01/2019	GJM

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Search Notes		
Search Notes	Date	Examiner
DBs searched: USPAT, USPGPUB, USOCR, DERWENT, EPO, JPO, IBM-TDB	05/01/2019	GJM

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/298,515	Millington et al.
	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	05/27/2019								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
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	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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Approved for use through 11/30/2020. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, Joon H.
Attorney Docket Number	05-0601-CON0319A

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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

	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 27 March 2014, issued in connection with U.S. Patent Application No. 13/533105, filed on 26 June 2012, 29 pages.	
	7	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.	
	8	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.	
	9	Final Office Action mailed on 02 June 2017, issued in connection with U.S. Patent Application No. 13/848932, filed on 22 March 2013, 32 pages.	
	10	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.	

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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

EXAMINER SIGNATURE			
Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	05/27/2019

*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	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

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	/Michael E.Coyne/	Date (YYYY-MM-DD)	2019-04-02
Name/Print	Michael E. Coyne	Registration Number	58443

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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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.

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Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG; Joon H
Attorney Docket Number	05-0601-CON0319A

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	1	20140079242		2014-03-20	NGUYEN; Nam et al.	
	2	20140108929		2014-04-17	GARMARK; Sten [Se] et al.	
	3	20140123005		2014-05-01	FORSTALL; Scott J [Us] et al.	
	4	20140140530		2014-05-22	GOMES-CASSERES GLENN [US] et al.	
	5	20140161265		2014-06-12	CHAIKIN; Peter et al.	

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	6	20140181569		2014-06-26	MILLINGTON; Nicholas A.J. et al.	
	7	20140233755		2014-08-21	KIM; Kwang-Soo et al.	
	8	20140242913		2014-08-28	PANG; Hawk Yin	
	9	20140256260		2014-09-11	UEDA; Joji et al.	
	10	20140267148		2014-09-18	LUNA; Michael Edward Smith [Us] et al.	
	11	20140270202		2014-09-18	IVANOV; Plamen A. et al.	
	12	20140273859		2014-09-18	LUNA; Michael Edward Smith [Us] et al.	
	13	20140279889		2014-09-18	LUNA; Michael Edward Smith [Us] et al.	
	14	20140285313		2014-09-25	LUNA; Michael Edward Smith et al.	
	15	20140286496		2014-09-25	LUNA; Michael Edward Smith et al.	
	16	20140298174		2014-10-02	IKONOMOV; Artashes Valeryevich	

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	17	20140323036		2014-10-30	DALEY; Michael J. et al.	
	18	20140344689		2014-11-20	SCOTT; Mark David [Us] et al.	
	19	20140378056		2014-12-25	LIU; Peter T [Us] et al.	
	20	20150019670		2015-01-15	REDMANN; William Gibbens	
	21	20150026613		2015-01-22	KWON; Yunmi [Kr] et al.	
	22	20150032844		2015-01-29	TARR; Morton et al.	
	23	20150043736		2015-02-12	OLSEN; Martin et al.	
	24	20150049248		2015-02-19	WANG; Min et al.	
	25	20150074527		2015-03-12	SEVIGNY; Jonathan Christopher [Us] et al.	
	26	20150074528		2015-03-12	SAKALOWSKY; John Michael [Us] et al.	
	27	20150098576		2015-04-09	SUNDARESAN; Rameshwar et al.	

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	28	20150139210		2015-05-21	MARIN; Janne et al.	
	29	20150256954		2015-09-10	CARLSSON; Gregory Peter [Us] et al.	
	30	20150304288		2015-10-22	BALASAYGUN; Mehmet et al.	
	31	20150365987		2015-12-17	WEEL; Martin	

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	1	FOUT, Tom, "Universal Plug and Play (UPnP) Client Support," Microsoft, August 2001, 18 pages.	
	2	Fries et al. "The MP3 and Internet Audio Handbook: Your Guide to the Digital Music Revolution." 2000, 320 pages.	

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	3	FULTON et al., "The Network Audio System: Make Your Application Sing (As Well As Dance)!" The X Resource, 1994, 14 pages.
	4	GASTON et al., "Methods for Sharing Stereo and Multichannel Recordings Among Planetariums," Audio Engineering Society Convention Paper 7474, 2008, 15 pages.
	5	General Event Notification Architecture Base: Client to Arbiter (April 2000) (23 pages).
	6	HANS et al., "Interacting with Audio Streams for Entertainment and Communication," Proceedings of the Eleventh ACM International Conference on Multimedia, ACM, 2003, 7 pages.
	7	HERRE et al., "The Reference Model Architecture for MPEG Spatial Audio Coding," Audio Engineering Society Convention Paper (Presented at the 118th Convention), May 28-31, 2005, 13 pages.
	8	Home Networking with Universal Plug and Play, IEEE Communications Magazine, Vol. 39 No. 12 (December 2001) (D +M_0402025-40) (16 pages).
	9	"Home Theater Control Systems," Cinema Source, 2002, 19 pages.
	10	HORWITZ, Jeremy, "Logic3 i-Station25," retrieved from the internet: http://www.ilounge.com/index.php/reviews/entry/ logic3-i-station25/, last visited December 17, 2013, 5 pages.
	11	HUANG C.M., et al., "A Synchronization Infrastructure for Multicast Multimedia at the Presentation Layer," IEEE Transactions on Consumer Electronics, 1997, pp. 370-380, Vol. 43, No. 3.
	12	IBM Home Director Installation and Service Manual, Copyright1998, 124 pages.
	13	IBM Home Director Owner's Manual, Copyright 1999, 67 pages.

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	14	Implicit, LLC v. Sonos, Inc. (No. 14-1330-RGA), Defendant's Original Complaint (Mar. 3, 2017) (15 pages).	
	15	Integra Audio Network Receiver NAC 2.3 Instruction Manual, 68 pages.	
	16	Integra Audio Network Server NAS 2.3 Instruction Manual, pp. 1-32.	
	17	Integra Service Manual, Audio Network Receiver Model NAC-2.3, December 2002, 44 pages.	
	18	Intel Designing a UPnP AV Media Renderer, v. 1.0 ("Intel AV Media Renderer") (May 20, 2003) (SONDM000115117-62) (46 pages).	
	19	Intel Media Renderer Device Interface ("Intel Media Renderer") (September 6, 2002) (62 pages).	
	20	Intel SDK for UPnP Devices Programming Guide, Version 1.2.1, (November 2002) (30 pages).	
	21	INTERNATIONAL BUREAU, International Preliminary Report on Patentability mailed on 08 January 2015, issued in connection with International Application No. PCT/US2013/046372, filed on 18 June 2013, 6 pages.	
	22	INTERNATIONAL BUREAU, International Preliminary Report on Patentability, mailed on 08 January 2015, issued in connection with International Application No. PCT/US2013/046386, filed on 18 June 2013, 8 pages.	
	23	INTERNATIONAL BUREAU, International Preliminary Report on Patentability mailed on 30 January 2014, issued in connection with International Application No. PCT/US2012/045894, filed on 09 July 2012, 6 pages.	
	24	INTERNATIONAL SEARCHING AUTHORITY, International Search Report mailed on 01 August 2008, in connection with International Application No. PCT/US2004/023102, 5 pages.	

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	25	INTERNATIONAL SEARCHING AUTHORITY, International Search Report mailed on 26 August 2013, issued in connection with International Application No. PCT/US2013/046372, filed on 18 June 2013, 3 pages.	
	26	INTERNATIONAL SEARCHING AUTHORITY, International Search Report mailed on 26 December 2012, issued in connection with International Application No. PCT/US2012/045894, filed on 09 July 2012, 3 pages.	
	27	INTERNATIONAL SEARCHING AUTHORITY, International Search Report mailed on 30 September 2013, issued in connection with International Application No. PCT/US2013/046386, filed on 18 June 2013, 3 pages.	
	28	INTERNATIONAL SEARCHING AUTHORITY, Written Opinion mailed on 26 August 2013, issued in connection with International Application No. PCT/US2013/046372, filed on 18 June 2013, 4 pages.	
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	30	INTERNATIONAL SEARCHING AUTHORITY, Written Opinion mailed on 30 September 2013, issued in connection with International Application No. PCT/US2013/046386, filed on 18 June 2013, 6 pages.	
	31	ISHIBASHI et al., "A Comparison of Media Synchronization Quality Among Reactive Control Schemes," IEEE Infocom, 2001, pp. 77-84.	
	32	ISHIBASHI et al., "A Group Synchronization Mechanism for Live Media in Multicast Communications," IEEE Global Telecommunications Conference, 1997, pp. 746-752, Vol. 2.	
	33	ISHIBASHI et al., "A Group Synchronization Mechanism for Stored Media in Multicast Communications," IEEE Information Revolution and Communications, 1997, pp. 692-700, Vol. 2.	
	34	Issues with Mixed IEEE 802.b/802.11g Networks, AVAGO0058, Agere Systems, February 2004, 5 pages.	
	35	JAPANESE PATENT OFFICE, Decision of Rejection mailed on 08 July 2014, issued in connection with Japanese Patent Application No. 2012-178711, 3 pages.	

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	36	JAPANESE PATENT OFFICE, Final Office Action mailed on 08 November 2016, issued in connection with Japanese Patent Application No. 2015-520286, 5 pages.	
	37	JAPANESE PATENT OFFICE, Notice of Rejection, mailed on 03 February 2015, issued in connection with Japanese Patent Application No. 2014-521648, 7 pages.	
	38	JAPANESE PATENT OFFICE, Notice of Rejection mailed on 15 September 2015, issued in connection with Japanese Patent Application No. 2014-220704, 7 pages.	
	39	JAPANESE PATENT OFFICE, Office Action mailed on 22 November 2016, issued in connection with Japanese Application No. 2015-520288, 6 pages.	
	40	JAPANESE PATENT OFFICE, Office Action mailed on 24 May 2016, issued in connection with Japanese Patent Application No. 2014-220704, 7 pages.	
	41	JAPANESE PATENT OFFICE, Office Action mailed on 29 March 2016, issued in connection with Japanese Patent Application No. JP2015-520288, 12 pages.	
	42	JAPANESE PATENT OFFICE, Office Action mailed on 29 November 2016, issued in connection with Japanese Application No. 2015-516169, 4 pages.	
	43	JAPANESE PATENT OFFICE, Office Action Summary mailed on 02 February 2016, issued in connection with Japanese Patent Application No. 2015-520286, 6 pages.	
	44	JAPANESE PATENT OFFICE, Office Action Summary mailed on 19 November 2013, issued in connection with Japanese Patent Application No. 2012-178711, 5 pages.	
	45	JO et al., "Synchronized One-to-many Media Streaming with Adaptive Playout Control," Proceedings of SPIE, 2002, pp. 71-82, Vol. 4861.	
	46	JONES, Stephen, "Dell Digital Audio Receiver: Digital upgrade for your analog stereo," Analog Stereo, 24 June 2000 retrieved 18 June 2014, 2 pages.	

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	47	KOU et al., "RenderingControl:1 Service Template Verion 1.01," Contributing Members of the UPnP Forum, June 25, 2002, 63 pages.	
	48	Lake Processors: Lake® LM Series Digital Audio Processors Operation Manual, 2011, 71 pages.	
	49	LEVERGOOD et al., "AudioFile: A Network-Transparent System for Distributed Audio Applications," Digital Equipment Corporation, 1993, 109 pages.	
	50	LG: RJP-201M Remote Jack Pack Installation and Setup Guide, 2010, 24 pages.	

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☒ A certification statement is not submitted herewith.

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Signature	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
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	1	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 9: Defendants' Invalidity Contentions for U.S. Patent No. 9,202,509 filed April 15, 2016, 163 pages.	
	2	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Preliminary Identification of Prior Art References, provided July 29, 2016, 5 pages.	
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	4	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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	7	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.	
	8	Sonos, Inc. v. D&M Holdings Inc. et al., Order, provided October 7, 2016, 2 pages.	
	9	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.	
	10	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.	
	11	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 206-1, Transcript of 101 Hearing (Nov. 28, 2016) (28 pages).	

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	Attorney Docket Number	05-0601-CON0319A

	12	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 207, PUBLIC Joint Claim Construction Brief (Nov. 30, 2016) (88 pages).	
	13	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 214, D&M Post-Markman Letter (Dec. 22, 2016) (13 pages).	
	14	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 215, Sonos Post-Markman Letter (Dec. 22, 2016) (15 pages).	
	15	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 219, Claim Construction Opinion (Jan. 12, 2017) (24 pages).	
	16	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 221, Claim Construction Order (Jan. 18 2017) (2 pages).	
	17	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), Markman Hearing Transcript (Dec. 14, 2016) (69 pages).	
	18	Sonos System Overview, Version 1.0, July 2011, 12 pages.	
	19	Sony: AIR-SA 50R Wireless Speaker, Copyright 2009, 2 pages.	
	20	Sony: Altus Quick Setup Guide ALT-SA32PC, Copyright 2009, 2 pages.	
	21	Sony: BD/DVD Home Theatre System Operating Instructions for BDV-E300, E301 and E801, Copyright 2009, 115 pages.	
	22	Sony: BD/DVD Home Theatre System Operating Instructions for BDV-IT1000/BDV-IS1000, Copyright 2008, 159 pages.	

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	23	Sony: Blu-ray Disc/DVD Home Theatre System Operating Instructions for BDV-IZ1000W, Copyright 2010, 88 pages.	
	24	Sony: DVD Home Theatre System Operating Instructions for DAV-DZ380W/DZ680W/DZ880W, Copyright 2009, 136 pages.	
	25	Sony: DVD Home Theatre System Operating Instructions for DAV-DZ870W, Copyright 2008, 128 pages.	
	26	Sony Ericsson MS500 User Guide, Copyright 2009, 2 pages.	
	27	Sony: Home Theatre System Operating Instructions for HT-IS100, Copyright 2008, 168 pages.	
	28	Sony: HT-IS100, 5.1 Channel Audio System, last updated November 2009, 2 pages.	
	29	Sony: Multi Channel AV Receiver Operating Instructions, 2007, 80 pages.	
	30	Sony: Multi Channel AV Receiver Operating Instructions for STR-DN1000, Copyright 2009, 136 pages.	
	31	Sony: STR-DN1000, Audio Video Receiver, last updated August 2009, 2 pages.	
	32	Sony: Wireless Surround Kit Operating Instructions for WHAT-SA2, Copyright 2010, 56 pages.	
	33	TAYLOR, Marilou, "Long Island Sound," Audio Video Interiors, April 2000, 8 pages.	

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	34	TOA Corporation, Digital Processor DP-0206 DACsys2000 Version 2.00 Software Instruction Manual, Copyright 2001, 67 pages.	
	35	Understanding Universal Plug and Play, Microsoft White Paper (June 2000) (D+M_0402074-118) (45 pages).	
	36	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.	
	37	UNITED STATES PATENT AND TRADEMARK OFFICE, U.S. Provisional Application No. 60/825,407 filed on 12 September 2006, entitled "Controlling and manipulating groupings in a multi-zone music or media system," 82 pages.	
	38	Universal Plug and Play Device Architecture V. 1.0, (June 8, 2000) (54 pages).	
	39	Universal Plug and Play in Windows XP, Tom Fout. Microsoft Corporation (July 2001) (D+M_0402041-73) (33 pages).	
	40	Universal Plug and Play ("UPnP") AV Architecture:1 For UPnP, Version 1.0, (June 25, 2002) (D+M_0298151-72) (22 pages).	
	41	Universal Plug and Play Vendor's Implementation Guide (January 5, 2000) (7 pages).	
	42	"UPnP and Sonos Questions," Sonos Community, December 2006, 5 pages.	
	43	UPnP AV Architecture:0.83 (June 12, 2002) (SONDM000115483-504) (22 pages).	
	44	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).	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	45	UPnP; "Universal Plug and Play Device Architecture," 08 June 2000; version 1.0; Microsoft Corporation; pp 1-54.	
	46	WANCommonInterfaceConfig:1 Service Template Version 1.01 For UPnP, Ver. 1.0 (November 12, 2001) (D +M_0401820-43) (24 pages).	
	47	WaveLan High-Speed Multimode Chip Set, AVAGO0003, Agere Systems, February 2003, 4 pages.	
	48	WaveLan High-Speed Multimode Chip Set, AVAGO0005, Agere Systems, February 2003, 4 pages.	

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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.

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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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58443

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	1	20020136335		2002-09-26	LIOU; Shih-Ping et al.	
	2	20020137505		2002-09-26	EICHE; Steven A. et al.	
	3	20020143998		2002-10-03	RAJAGOPAL; Priya et al.	
	4	20020150053		2002-10-17	GRAY; Donald M. et al.	
	5	20020159596		2002-10-31	DURAND; Julian et al.	

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	6	20020163361		2002-11-07	PARKIN; Michael W.	
	7	20020165721		2002-11-07	CHANG; Kenneth H.P. et al.	
	8	20020165921		2002-11-07	SAPIEYEVSKI; Jerzy	
	9	20020168938		2002-11-14	CHANG; Chin-Chi	
	10	20020173273		2002-11-21	SPURGAT; Jeffrey Jonathan et al.	
	11	20020177411		2002-11-28	YAJIMA; Kiyoshi et al.	
	12	20020181355		2002-12-05	SHIKUNAMI; Juichi et al.	
	13	20020184310		2002-12-05	TRAVERSAT; Bernard A. et al.	
	14	20020188762		2002-12-12	TOMASSETTI; Stephen Robert et al.	
	15	20020194260		2002-12-19	HEADLEY; Kent Lawrence et al.	
	16	20020194309		2002-12-19	CARTER; Harry Nick [Us] et al.	

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	17	20030002609		2003-01-02	FALLER; Christof et al.	
	18	20030008616		2003-01-09	ANDERSON; Lelan S.	
	19	20030014486		2003-01-16	MAY; Gregory J.	
	20	20030018797		2003-01-23	DUNNING; Ted E. et al.	
	21	20030020763		2003-01-30	MAYER; Theodore et al.	
	22	20030023741		2003-01-30	TOMASSETTI; Stephen Robert et al.	
	23	20030035072		2003-02-20	HAGG; Wilhelm	
	24	20030035444		2003-02-20	ZWACK; Eduard	
	25	20030041173		2003-02-27	HOYLE; Stephen L.	
	26	20030041174		2003-02-27	WEN; Sayling et al.	
	27	20030043856		2003-03-06	LAKANIEMI; Ari et al.	

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	28	20030043924		2003-03-06	HADDAD; Semir S. et al.	
	29	20030050058		2003-03-13	WALSH; Rod et al.	
	30	20030055892		2003-03-20	HUITEMA; Christian et al.	
	31	20030061428		2003-03-27	GARNEY; John I. et al.	
	32	20030063528		2003-04-03	OGIKUBO; Takahiko	
	33	20030063755		2003-04-03	NOURSE; James D. et al.	
	34	20030066094		2003-04-03	VAN DER SCHAAR; Auke Sjoerd et al.	
	35	20030067437		2003-04-10	MCCLINTOCK; Dale Thomas et al.	
	36	20030073432		2003-04-17	MEADE; William K.	
	37	20030097478		2003-05-22	KING; James Reynell	
	38	20030099212		2003-05-29	ANJUM; Farooq et al.	

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	Attorney Docket Number	05-0601-CON0319A

	39	20030099221		2003-05-29	RHEE; Sokwoo	
	40	20030101253		2003-05-29	SAITO; Takayuki et al.	
	41	20030103088		2003-06-05	DRESTI; Mauro et al.	
	42	20030109270		2003-06-12	SHORTY; Peter	
	43	20030110329		2003-06-12	HIGAKI; Nobuo et al.	
	44	20030123853		2003-07-03	IWAHARA; Yuji et al.	
	45	20030126211		2003-07-03	ANTTILA; Akseli et al.	
	46	20030135822		2003-07-17	EVANS; Glenn F.	
	47	20030157951		2003-08-21	HASTY; William V.	
	48	20030167335		2003-09-04	ALEXANDER; Bruce	
	49	20030172123		2003-09-11	POLAN; Jeffrey S. et al.	

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	50	20030179780		2003-09-25	WALKER; Anthony et al.	
	51	20030182254		2003-09-25	PLASTINA; Daniel et al.	
	52	20030185400		2003-10-02	YOSHIZAWA; Kazuhiko et al.	
	53	20030187657		2003-10-02	ERHART; George W. et al.	
	54	20030195964		2003-10-16	MANE; Pravin D.	
	55	20030198254		2003-10-23	SULLIVAN; Gary E. et al.	
	56	20030198255		2003-10-23	SULLIVAN; Gary E [Us] et al.	
	57	20030198257		2003-10-23	SULLIVAN; Gary E. et al.	
	58	20030200001		2003-10-23	GODDARD; Mark D [Us] et al.	
	59	20030204273		2003-10-30	DINKER; Darpan et al.	
	60	20030204509		2003-10-30	DINKER; Darpan et al.	

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	61	20030210796		2003-11-13	MCCARTY; William A. et al.	
	62	20030212802		2003-11-13	RECTOR; Dusty D. et al.	
	63	20030219007		2003-11-27	BARRACK; Craig et al.	
	64	20030227478		2003-12-11	CHATFIELD; Keith M.	
	65	20030229900		2003-12-11	REISMAN; Richard	
	66	20030231208		2003-12-18	HANON; Kris et al.	
	67	20030231871		2003-12-18	USHIMARU; Chikara	
	68	20030235304		2003-12-25	EVANS; Glenn F. et al.	
	69	20040001106		2004-01-01	DEUTSCHER; John et al.	
	70	20040001484		2004-01-01	OZGUNER; Tolga	
	71	20040001591		2004-01-01	MANI; Murali et al.	

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	72	20040002938		2004-01-01	DEGUCHI; Yuichiro	
	73	20040008852		2004-01-15	ALSO; Masaru et al.	
	74	20040010727		2004-01-15	FUJINAMI; Yasushi	
	75	20040012620		2004-01-22	BUHLER; Rene et al.	
	76	20040014426		2004-01-22	MOORE; Richard A.	
	77	20040015252		2004-01-22	AISO; Masaru et al.	
	78	20040019497		2004-01-29	VOLK; Andrew R. et al.	
	79	20040019807		2004-01-29	FREUND; Gregor P. et al.	
	80	20040019911		2004-01-29	GATES; Matthijs A. et al.	
	81	20040023697		2004-02-05	KOMURA; Tatsumi	
	82	20040024478		2004-02-05	HANS; Mathieu Claude et al.	

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	83	20040024925		2004-02-05	CYPHER; Robert E. et al.	
	84	20040027166		2004-02-12	MANGUM; Wayne G. et al.	
	85	20040032348		2004-02-19	LAI; Angela C. W. et al.	
	86	20040032421		2004-02-19	WILLIAMSON; Charles G. et al.	
	87	20040037433		2004-02-26	CHEN; Heng-Chien	
	88	20040041836		2004-03-04	ZANER; Melora et al.	
	89	20040042629		2004-03-04	MELLONE; Charles M. et al.	
	90	20040044742		2004-03-04	EVRON; Roni et al.	
	91	20040048569		2004-03-11	KAWAMURA; Harumi	
	92	20040059842		2004-03-25	HANSON; Mark L. et al.	
	93	20040059965		2004-03-25	MARSHALL; Kenneth R. et al.	

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	94	20040066736		2004-04-08	KROEGER; Brian William	
	95	20040075767		2004-04-22	NEUMAN; Darren et al.	
	96	20040078383		2004-04-22	MERCER; Ian Cameron et al.	
	97	20040080671		2004-04-29	SIEMENS; Duane et al.	
	98	20040093096		2004-05-13	HUANG; Steve Lan-Ping et al.	
	99	20040098754		2004-05-20	VELLA; Zane et al.	
	100	20040111473		2004-06-10	LYSENKO; Anton et al.	
	101	20040117462		2004-06-17	BODIN; William Kress et al.	
	102	20040117491		2004-06-17	KARAOGUZ; Jeyhan et al.	
	103	20040117840		2004-06-17	BOUDREAU; Paul A. et al.	
	104	20040117858		2004-06-17	BOUDREAU; Paul A. et al.	

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	105	20040128701		2004-07-01	KANEKO; Toshimitsu et al.	
	106	20040131192		2004-07-08	METCALF; Randall B.	
	107	20040133689		2004-07-08	VASISHT; Samrat [Us] et al.	
	108	20040143368		2004-07-22	MAY; Robert E. et al.	
	109	20040143852		2004-07-22	MEYERS; Philip G.	
	110	20040148237		2004-07-29	BITTMANN; Ran et al.	
	111	20040168081		2004-08-26	LADAS; Corey M. et al.	
	112	20040170383		2004-09-02	MAZUR; Leszek	
	113	20040171346		2004-09-02	LIN; John	
	114	20040177167		2004-09-09	IWAMURA; Ryuichi et al.	
	115	20040179554		2004-09-16	TSAO; Hsi-Kang	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	116	20040183827		2004-09-23	PUTTERMAN; Daniel et al.	
	117	20040185773		2004-09-23	GERBER; Louis et al.	
	118	20040203378		2004-10-14	POWERS; Simon	
	119	20040203590		2004-10-14	SHTEYN; Eugene	
	120	20040208158		2004-10-21	FELLMAN; Ronald D. et al.	
	121	20040213230		2004-10-28	DOUSKALIS; William et al.	
	122	20040223622		2004-11-11	LINDEMANN; Eric Lee [Us] et al.	
	123	20040224638		2004-11-11	FADELL; Anthony M. et al.	
	124	20040228367		2004-11-18	MOSIG; Rudiger et al.	
	125	20040248601		2004-12-09	CHANG; Chin-Chi	
	126	20040249490		2004-12-09	SAKAI; Kenji	

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	127	20040249965		2004-12-09	HUGGINS; Guy Dwayne et al.	
	128	20040249982		2004-12-09	ARNOLD; Johann et al.	
	129	20040252400		2004-12-16	BLANK; William Thomas et al.	
	130	20040253969		2004-12-16	NGUYEN; Vu X. et al.	
	131	20050010691		2005-01-13	OYADOMARI; Randy et al.	
	132	20050011388		2005-01-20	KOUZNETSOV; Alex A.	
	133	20050013394		2005-01-20	RAUSCH; Mathias et al.	
	134	20050015551		2005-01-20	EAMES; Russell Mark et al.	
	135	20050021590		2005-01-27	DEBIQUE; Kirt A [Us] et al.	
	136	20050027821		2005-02-03	ALEXANDER; Justin et al.	
	137	20050047605		2005-03-03	LEE; Noel et al.	

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	138	20050058149		2005-03-17	HOWE; Wayne Richard	
	139	20050060435		2005-03-17	XUE; Xin et al.	
	140	20050062637		2005-03-24	EL ZABADANI; Hicham Mahmoud et al.	
	141	20050081213		2005-04-14	SUZUOKI; Masakazu et al.	
	142	20050105052		2005-05-19	MCCORMICK; Tom et al.	
	143	20050114538		2005-05-26	ROSE; Steven W.	
	144	20050120128		2005-06-02	WILLES; W. P. et al.	
	145	20050125222		2005-06-09	BROWN; Michael Wayne et al.	
	146	20050125357		2005-06-09	SAADAT; Abbas S. et al.	
	147	20050131558		2005-06-16	BRAITHWAITE; Michael et al.	
	148	20050154766		2005-07-14	HUANG; Wei-Hung et al.	

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	149	20050159833		2005-07-21	GIAIMO; Edward C. et al.	
	150	20050160270		2005-07-21	GOLDBERG; David et al.	
	151	20050166135		2005-07-28	BURKE; David G. et al.	
	152	20050168630		2005-08-04	YAMADA; Norihiko et al.	
	153	20050170781		2005-08-04	JACOBSEN; Eric A. et al.	
	154	20050177643		2005-08-11	XU; Shugong	
	155	20050181348		2005-08-18	CAREY; Tadhg M. et al.	
	156	20050195205		2005-09-08	ABRAMS; Thomas A.Jr	
	157	20050195823		2005-09-08	CHEN; Jian-Rong et al.	
	158	20050197725		2005-09-08	ALEXANDER; Jim et al.	
	159	20050198574		2005-09-08	LAMKIN; Allan B. et al.	

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	160	20050201549		2005-09-15	DEDIEU; Stephane et al.	
	161	20050215265		2005-09-29	SHARMA; Sanjeev K.	
	162	20050216556		2005-09-29	MANION; Todd R. et al.	
	163	20050239445		2005-10-27	KARAOGUZ; Jeyhan et al.	
	164	20050246421		2005-11-03	MOORE; Kevin R. et al.	
	165	20050262217		2005-11-24	NONAKA; Masao et al.	
	166	20050281255		2005-12-22	DAVIES; Trevor et al.	
	167	20050283820		2005-12-22	RICHARDS; Martin J. et al.	
	168	20050288805		2005-12-29	MOORE; Jeffrey C. et al.	
	169	20050289224		2005-12-29	DESLIPPE; Mark H. et al.	
	170	20060041639		2006-02-23	LAMKIN; Allan B [Us] et al.	

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	171	20060072489		2006-04-06	TOYOSHIMA; Akihiko	
	172	20060095516		2006-05-04	WIJERATNE; Viranga L.	
	173	20060098936		2006-05-11	IKEDA; Wataru et al.	
	174	20060119497		2006-06-08	MILLER; Kevin L. et al.	
	175	20060142034		2006-06-29	WENTINK; Menzo et al.	
	176	20060143236		2006-06-29	WU; Michael	
	177	20060155721		2006-07-13	GRUNWALD; David et al.	
	178	20060161742		2006-07-20	SUGIMOTO; Kayo et al.	
	179	20060173844		2006-08-03	ZHANG; Junbiao et al.	
	180	20060173976		2006-08-03	VINCENT; Jonathan M. et al.	
	181	20060193454		2006-08-31	ABOU-CHAKRA, RABIH. et al.	

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	182	20060222186		2006-10-05	PAIGE; Robert F. et al.	
	183	20060227985		2006-10-12	KAWANAMI; Kenichiro	
	184	20060259649		2006-11-16	HSIEH; Kuan-Hong et al.	
	185	20060270395		2006-11-30	DHAWAN; Anil K [Us] et al.	
	186	20070003067		2007-01-04	GIERL; Stefan et al.	
	187	20070022156		2007-01-25	GRUBBS; Gregory J.	
	188	20070022207		2007-01-25	MILLINGTON; Nicholas A. et al.	
	189	20070038999		2007-02-15	MILLINGTON; Nicholas A J [Us] et al.	
	190	20070043847		2007-02-22	CARTER; Harry N. et al.	
	191	20070047712		2007-03-01	GROSS; Kevin P. et al.	
	192	20070048713		2007-03-01	PLASTINA; Daniel et al.	

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	193	20070054680		2007-03-08	MO; Shaomin S. et al.	
	194	20070087686		2007-04-19	HOLM; Jukka [Fi] et al.	
	195	20070142022		2007-06-21	MADONNA; Robert P. et al.	
	196	20070142944		2007-06-21	GOLDBERG; David et al.	
	197	20070143493		2007-06-21	MULLIG; Richard M. et al.	
	198	20070169115		2007-07-19	KO; Steve et al.	
	199	20070180137		2007-08-02	RAJAPAKSE; Ravi	
	200	20070192156		2007-08-16	GAUGER; Derek K.	
	201	20070249295		2007-10-25	UKITA; Yoshitaka et al.	
	202	20070265031		2007-11-15	KOIZUMI; Michiaki [Jp] et al.	
	203	20070271388		2007-11-22	BOWRA; Todd et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	204	20070299778		2007-12-27	HAVESON; Ryan A [Us] et al.	
	205	20080002836		2008-01-03	MOELLER; Niklas et al.	
	206	20080007649		2008-01-10	BENNETT; James D.	
	207	20080007650		2008-01-10	BENNETT; James D.	
	208	20080007651		2008-01-10	BENNETT; James D.	
	209	20080018785		2008-01-24	BENNETT; James D.	
	210	20080022320		2008-01-24	VER STEEG; William C.	
	211	20080025535		2008-01-31	RAJAPAKSE; Ravi	
	212	20080072816		2008-03-27	RIESS; Walter H. et al.	
	213	20080075295		2008-03-27	MAYMAN; Avrum G. et al.	
	214	20080077619		2008-03-27	GILLEY; Glenn Gregory et al.	

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	215	20080077620		2008-03-27	GILLEY; Glenn Gregory et al.	
	216	20080086318		2008-04-10	GILLEY; Glenn Gregory et al.	
	217	20080091771		2008-04-17	ALLEN; Jeffrey L. et al.	
	218	20080120429		2008-05-22	MILLINGTON; Nicholas A.J. et al.	
	219	20080126943		2008-05-29	PARASNIS; Shashank Mohan et al.	
	220	20080144861		2008-06-19	MELANSON; John L. et al.	
	221	20080144864		2008-06-19	HUON; Graeme John [Au] et al.	
	222	20080146289		2008-06-19	KORNELUK; Jose E [Us] et al.	
	223	20080189272		2008-08-07	POWERS; Michael et al.	
	224	20080205070		2008-08-28	OSADA; Yasuo	
	225	20080212786		2008-09-04	PARK; Hae-Kwang	

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	226	20080215169		2008-09-04	DEBETTENCOURT; Lisa et al.	
	227	20080263010		2008-10-23	ROYCHOUDHURI; Subrata et al.	
	228	20080303947		2008-12-11	OHNISHI; Sunao et al.	
	229	20090011798		2009-01-08	YAMADA; Hiroshi	
	230	20090017868		2009-01-15	UEDA; Joji et al.	
	231	20090031336		2009-01-29	CHAVEZ; Timothy R. et al.	
	232	20090070434		2009-03-12	HIMMELSTEIN; Richard B.	
	233	20090089327		2009-04-02	KALABOUKIS; Chris et al.	
	234	20090100189		2009-04-16	BAHREN; Frank et al.	
	235	20090124289		2009-05-14	NISHIDA; Osamu	
	236	20090157905		2009-06-18	DAVIS; Bradford C.	

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	237	20090164655		2009-06-25	PETTERSSON; Mattias et al.	
	238	20090193345		2009-07-30	WENSLEY; Paul et al.	
	239	20090222115		2009-09-03	MALCOLM; David et al.	
	240	20090228919		2009-09-10	ZOTT; Joseph A [Us] et al.	
	241	20090251604		2009-10-08	IYER; Suraj C.	
	242	20100004983		2010-01-07	DICKERSON; Stephanie et al.	
	243	20100031366		2010-02-04	KNIGHT; Mark Stephen [Gb] et al.	
	244	20100049835		2010-02-25	KO; Steve et al.	
	245	20100087089		2010-04-08	STRUTHERS; Scott et al.	
	246	20100228740		2010-09-09	CANNISTRARO; Alan et al.	
	247	20100284389		2010-11-11	RAMSAY; Max [Au] et al.	

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	248	20100299639		2010-11-25	RAMSAY; Max Gordon [Au] et al.	
	249	20110001632		2011-01-06	HOHORST; Andrew Gordon	
	250	20110002487		2011-01-06	PANTHER; Heiko et al.	
	251	20110066943		2011-03-17	BRILLON; Francois [Ca] et al.	
	252	20110228944		2011-09-22	CROGHAN; Frank et al.	
	253	20110316768		2011-12-29	MCRAE; Matthew Blake	
	254	20120029671		2012-02-02	MILLINGTON; Nicholas A. J. et al.	
	255	20120030366		2012-02-02	COLLART; Todd et al.	
	256	20120051567		2012-03-01	CASTOR-PERRY KENDALL.	
	257	20120060046		2012-03-08	MILLINGTON; Nicholas A. J.	
	258	20120129446		2012-05-24	KO; Steve et al.	

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	259	20120148075		2012-06-14	GOH; Aik Hee Daniel [Sg] et al.	
	260	20120185771		2012-07-19	ROTHKOPF; Fletcher R. et al.	
	261	20120192071		2012-07-26	MILLINGTON; Nicholas A. J.	
	262	20120207290		2012-08-16	MOYERS; Josh et al.	
	263	20120237054		2012-09-20	EO; Kil-Su et al.	
	264	20120281058		2012-11-08	LANEY; Alan et al.	
	265	20120290621		2012-11-15	HEITZ III; Geremy A. et al.	
	266	20130013757		2013-01-10	MILLINGTON; Nicholas A J [Us] et al.	
	267	20130018960		2013-01-17	KNYSZ; Matthew S. et al.	
	268	20130031475		2013-01-31	MAOR; Yehonatan Rafael et al.	
	269	20130038726		2013-02-14	KIM; Jin-Hyong	

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	270	20130041954		2013-02-14	KIM; Laeyoung et al.	
	271	20130047084		2013-02-21	SANDERS; Christopher John et al.	
	272	20130052940		2013-02-28	BRILLHART; David C. et al.	
	273	20130070093		2013-03-21	RIVERA; Ed et al.	
	274	20130080599		2013-03-28	KO; Steve et al.	
	275	20130094670		2013-04-18	MILLINGTON; Nicholas A. J.	
	276	20130121492		2013-05-16	VACON; Gary et al.	
	277	20130124664		2013-05-16	FONSECA Jr.; Benedito J. et al.	
	278	20130129122		2013-05-23	JOHNSON; Martin E. et al.	
	279	20130132837		2013-05-23	MEAD; Jonathan Selwyn et al.	
	280	20130159126		2013-06-20	ELKADY; Amr	

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	281	20130167029		2013-06-27	FRIESEN; Sharon E [Us] et al.	
	282	20130174100		2013-07-04	SEYMOUR; Eric T. et al.	
	283	20130174223		2013-07-04	DYKEMAN; Kim R. et al.	
	284	20130179163		2013-07-11	HERBIG; Tobias et al.	
	285	20130191454		2013-07-25	OLIVER; Michael R [Us] et al.	
	286	20130197682		2013-08-01	MILLINGTON; Nicholas A. J.	
	287	20130208911		2013-08-15	MILLINGTON; Nicholas A. J.	
	288	20130208921		2013-08-15	MILLINGTON; Nicholas A.J.	
	289	20130226323		2013-08-29	MILLINGTON; Nicholas A. J.	
	290	20130230175		2013-09-05	BECH; Soeren et al.	
	291	20130232416		2013-09-05	MILLINGTON; Nicholas A. J.	

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	292	20130253934		2013-09-26	PAREKH; Jateen P. et al.	
	293	20130279706		2013-10-24	MARTI; Stefan J [Us] et al.	
	294	20130287186		2013-10-31	QUADY; Curtis E.	
	295	20130290504		2013-10-31	QUADY; Curtis E.	
	296	20140006483		2014-01-02	GARMARK; Sten [Se] et al.	
	297	20140037097		2014-02-06	LABOSCO; Mark	
	298	20140064501		2014-03-06	OLSEN; Martin et al.	
	299	20140075308		2014-03-13	SANDERS; Christopher John [Us] et al.	
	300	20140075311		2014-03-13	BOETTCHER; Jesse William et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

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	1	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.	
	2	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.	
	3	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.	
	4	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.	
	5	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.	
	6	Final Office Action mailed on 05 July 2013, issued in connection with U.S. Patent Application No. 13/618829, filed on 14 September 2012, 22 pages.	
	7	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.	
	8	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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	9	Final Office Action mailed on 08 March 2017, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 39 pages.	
	10	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.	
	11	Final Office Action mailed on 10 April 2017, issued in connection with U.S. Patent Application No. 15/243355, filed on 22 August 2016, 15 pages.	
	12	FOBER et al., "Clock Skew Compensation over a High Latency Network," Proceedings of the ICMC, 2002, pp. 548-552.	
	13	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.	
	14	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.	
	15	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.	
	16	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.	
	17	Final Office Action mailed on 11 July 2017, issued in connection with U.S. Patent Application No. 15/243186, filed on 22 August 2016, 13 pages.	
	18	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.	
	19	Final Office Action mailed on 12 January 2017, issued in connection with U.S. Patent Application No. 14/504812, filed on 02 October 2014, 25 pages.	

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	20	Final Office Action mailed on 13 December 2016, issued in connection with U.S. Patent Application No. 13/871795, filed on 26 April 2013, 41 pages.	
	21	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.	
	22	Final Office Action mailed on 14 August 2009, issued in connection with U.S. Patent Application No. 11/147116, filed 06 June 2005, 28 pages.	
	23	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.	
	24	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.	
	25	Final Office Action mailed on 15 June 2017, issued in connection with U.S. Patent Application No. 15/228639, filed on 04 August 2016, 16 pages.	
	26	Final Office Action mailed on 15 May 2017, issued in connection with U.S. Patent Application No. 13/864252, filed on 17 April 2013, 13 pages.	
	27	Final Office Action mailed on 16 March 2011, issued in connection with U.S. Patent Application No. 11/147116, filed 06 June 2005, 40 pages.	
	28	Final Office Action mailed on 16 May 2017, issued in connection with U.S. Patent Application No. 13/864249, filed on 17 April 2013, 14 pages.	
	29	Final Office Action mailed on 16 May 2017, issued in connection with U.S. Patent Application No. 13/864250, filed on 17 April 2013, 12 pages.	
	30	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.	

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	31	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.	
	32	Final Office Action mailed on 20 April 2017, issued in connection with U.S. Patent Application No. 13/864248, filed on 17 April 2013, 14 pages.	
	33	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.	
	34	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.	
	35	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.	
	36	Final Office Action mailed on 24 December 2009, issued in connection with U.S. Patent Application No. 11/147116, filed on 06 June 2005, 29 pages.	
	37	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.	
	38	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.	
	39	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.	
	40	Final Office Action mailed on 28 June 2017, issued in connection with U.S. Patent Application No. 14/808875, filed on 24 July 2015, 14 pages.	
	41	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.	

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	42	Final Office Action mailed on 31 December 2015, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 34 pages.
	43	Final Office Action mailed on 4 February 2019, issued in connection with U.S. Patent Application No. 15/091113, filed on 5 April 2016, 23 pages.
	44	Fireball DVD and Music Manager DVDM-100 Installation and User's Guide, Copyright 2003, 185 pages.
	45	Fireball MP-200 User's Manual, Copyright 2006, 93 pages.
	46	Fireball Remote Control Guide WD006-1-1, Copyright 2003, 19 pages.
	47	Fireball SE-D1 User's Manual, Copyright 2005, 90 pages.
	48	First Action Interview Office Action Summary mailed on 15 April 2015, issued in connection with U.S. Patent Application No. 14/505027, filed on 02 October 2014, 6 pages.
	49	First Action Pre-Interview Office Action mailed on 22 June 2017, issued in connection with U.S. Patent Application No. 14/516883, filed on 17 October 2014, 5 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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The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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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
	1	RE41608		2010-08-31	BLAIR; Christopher Douglas et al.	
	2	D260764	S	1981-09-15	CASTAGNA; John F. et al.	
	3	D279779	S	1985-07-23	TAYLOR; Terrance N.	
	4	D293671	S	1988-01-12	BEAUMONT; Thomas G.	
	5	D301037	S	1989-05-09	MATSUDA; Hari	
	6	D304443	S	1989-11-07	GRINYER; Clive A. et al.	
	7	D313023	S	1990-12-18	KOLENDA; David F. et al.	
	8	D313398	S	1991-01-01	GILCHRIST; Thomas L.	

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	9	D313600	S	1991-01-08	WEBER; Edward W.	
	10	D320598	S	1991-10-08	AUERBACH; Marc et al.	
	11	D322609	S	1991-12-24	PATTON; Douglas M.	
	12	D326450	S	1992-05-26	WATANABE; Katsuhito	
	13	D327060	S	1992-06-16	WACHOB; David E. et al.	
	14	D331388	S	1992-12-01	DAHNERT; Dean L. et al.	
	15	D333135	S	1993-02-09	WACHOB; David E. et al.	
	16	D350531	S	1994-09-13	TSUJI; Masao	
	17	D350962	S	1994-09-27	REARDON; John D. et al.	
	18	D354059	S	1995-01-03	HENDRICKS; John S.	
	19	D354751	S	1995-01-24	HERSH; Joseph B. et al.	

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	20	D356093	S	1995-03-07	MCCAULEY; Gilbert L. et al.	
	21	D356312	S	1995-03-14	ALTHANS; Richard K.	
	22	D357024	S	1995-04-04	TOKIYAMA; Masaru et al.	
	23	D362446	S	1995-09-19	GASIOREK; John G. et al.	
	24	D363933	S	1995-11-07	STARCK; Philippe	
	25	D364877	S	1995-12-05	TOKIYAMA; Masaru et al.	
	26	D364878	S	1995-12-05	GREEN; Dewayne E. et al.	
	27	D365102	S	1995-12-12	GIOSCIA; Richard	
	28	D366044	S	1996-01-09	HARA; Masayuki et al.	
	29	D372716	S	1996-08-13	THORNE; Edwin	
	30	D377651	S	1997-01-28	BIASOTTI; Mark et al.	

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	31	D379816	S	1997-06-10	LAITURI; David W. et al.	
	32	D380752	S	1997-07-08	HANSON; Bruce D.	
	33	D382271	S	1997-08-12	AKWIWU; Ndukwe	
	34	D384940	S	1997-10-14	KONO; Kenichiro et al.	
	35	D387352	S	1997-12-09	KANEKO; Steven T. et al.	
	36	D388792	S	1998-01-06	NYKERK; Michael	
	37	D389143	S	1998-01-13	WICKS; James E.	
	38	D392641	S	1998-03-24	FENNER; Knut T.	
	39	D393628	S	1998-04-21	LEDBETTER; Carl J. et al.	
	40	D394659	S	1998-05-26	BIASOTTI; Mark et al.	
	41	D395889	S	1998-07-07	GERBA; George et al.	

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	42	D397996	S	1998-09-08	SMITH; Michael A.	
	43	D401587	S	1998-11-24	RUDOLPH; Daniel L.	
	44	D404741	S	1999-01-26	SCHUMAKER; Nevenka et al.	
	45	D405071	S	1999-02-02	GAMBARO; Thomas L.	
	46	D406847	S	1999-03-16	GERBA; George et al.	
	47	D407071	S	1999-03-23	KEATING; Virginia Walker	
	48	D410927	S	1999-06-15	YAMAGISHI; Yoshinobu	
	49	D412337	S	1999-07-27	HAMANO; Masataka	
	50	D415496	S	1999-10-19	GERBA; George et al.	
	51	D416021	S	1999-11-02	GODETTE; Robert G. et al.	
	52	D420006	S	2000-02-01	TONINO; Eduardus Josephus Anna Maria	

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	53	D429246	S	2000-08-08	HOLMA; Tapani	
	54	D430143	S	2000-08-29	RENK; Thomas Edward	
	55	D431552	S	2000-10-03	BACKS; Jochen Philipp et al.	
	56	D432525	S	2000-10-24	BEECROFT; Troy C.	
	57	D444475		2001-07-03	LEVEY; Keith P. et al.	
	58	D444475		2001-07-03	LEVEY; Keith P. et al.	
	59	D452520		2001-12-25	GOTHAM; David R. et al.	
	60	D462339		2002-09-03	ALLEN; Paul G. et al.	
	61	D462340		2002-09-03	ALLEN; Paul G. et al.	
	62	D462945		2002-09-17	SKULLEY; Gerald W.	
	63	D466108		2002-11-26	GLODAVA; Derrick A. et al.	

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	64	D468297		2003-01-07	IKEDA; Tetsuya	
	65	D474763		2003-05-20	TOZAKI; Ray et al.	
	66	D475993		2003-06-17	MEYER; Robert K.	
	67	D476643		2003-07-01	YAMAGISHI; Masayuki	
	68	D477310		2003-07-15	MORANSAIS; Charles	
	69	D478051		2003-08-05	SAGAWA; So	
	70	D478069		2003-08-05	BECK; Benjamin et al.	
	71	D478896		2003-08-26	SUMMERS; Kim Renee	
	72	D479520		2003-09-09	DE; Saulles Stephen	
	73	D481056		2003-10-21	KAWASAKI; Mugio et al.	
	74	D486145		2004-02-03	KAMINSKI; Dariusz S. et al.	

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	75	D491925		2004-06-22	GRIESAU; Gene W. et al.	
	76	D493148		2004-07-20	SHIBATA; Kumiko et al.	
	77	D495333		2004-08-31	BORSBOOM; Antonious M.	
	78	D496003		2004-09-14	SPIRA; Joel S.	
	79	D496005		2004-09-14	WANG; Carter	
	80	D496335		2004-09-21	SPIRA; Joel S.	
	81	D497363		2004-10-19	OLSON; Mark H. et al.	
	82	D499086		2004-11-30	POLITO; Fred	
	83	D499395		2004-12-07	HSU; Gary	
	84	D499718		2004-12-14	CHEN; Alex	
	85	D500015		2004-12-21	GUBBE; Bernd	

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	86	D501477		2005-02-01	HALL; David	
	87	D504872		2005-05-10	UEHARA; Mitsuhiro et al.	
	88	D504885		2005-05-10	ZHANG; Jinsong et al.	
	89	D506463		2005-06-21	DANIELS; Wilfried Johan Paul Ferdinand	
	90	D515072		2006-02-14	LEE; Nikolas Ian	
	91	D515557		2006-02-21	OKULEY; James M.	
	92	D518475		2006-04-04	YANG; Yu-Ching et al.	
	93	D524296		2006-07-04	KITA; Toshiyuki	
	94	D527375		2006-08-29	FLORA; William T. et al.	
	95	3956591		1976-05-11	GATES Jr.; ,William A.	
	96	4105974		1978-08-08	ROGERS; Edwin F.	

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	97	4296278		1981-10-20	CULLISON; Steven B. et al.	
	98	4306114		1981-12-15	CALLAHAN; Jeffery C.	
	99	4509211		1985-04-02	ROBBINS; Michael S.	
	100	4530091		1985-07-16	CROCKETT; Gary B.	
	101	4696037		1987-09-22	FIERENS; Gustaaf E. M.	
	102	4701629		1987-10-20	CITROEN; Maxime H.	
	103	4712105		1987-12-08	KOEHLER; Hans E. P.	
	104	4731814		1988-03-15	BECKER; William R. et al.	
	105	4816989		1989-03-28	FINN; Alan M. et al.	
	106	4824059		1989-04-25	BUTLER; Les I.	
	107	4845751		1989-07-04	SCHWAB; Brian H.	

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	108	4994908		1991-02-19	KUBAN; Curt M. et al.	
	109	5086385		1992-02-04	LAUNEY; Reuel O. et al.	
	110	5151922		1992-09-29	WEISS; Karl R.	
	111	5153579		1992-10-06	FISCH; Kenneth D. et al.	
	112	5182552		1993-01-26	PAYNTING; Richard J.	
	113	5185680		1993-02-09	KAKUBO; Yuji	
	114	5198603		1993-03-30	NISHIKAWA; Masashi et al.	
	115	5237327		1993-08-17	SAITOH; Mitsumasa et al.	
	116	5239458		1993-08-24	SUZUKI; Takashi	
	117	5272757		1993-12-21	SCOFIELD; William C. et al.	
	118	5299266		1994-03-29	LUMSDEN; John L.	

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	119	5361381		1994-11-01	SHORT; William R.	
	120	5372441		1994-12-13	LOUIS; William M.	
	121	5406634		1995-04-11	ANDERSON; Charles W [Us] et al.	
	122	5430485		1995-07-04	LANKFORD; Douglas E. et al.	
	123	5440644		1995-08-08	FARINELLI; Robert [Us] et al.	
	124	5457448		1995-10-10	TOTSUKA; Keiichi et al.	
	125	5467342		1995-11-14	LOGSTON; Gary L. et al.	
	126	5481251		1996-01-02	BUYS; Menno et al.	
	127	5491839		1996-02-13	SCHOTZ; Larry	
	128	5515345		1996-05-07	BARREIRA; Jeane K. et al.	
	129	5533021		1996-07-02	BRANSTAD; Mark W. et al.	

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	130	5553147		1996-09-03	PINEAU; Joseph E. M.	
	131	5553222		1996-09-03	MILNE; Steve H. et al.	
	132	5553314		1996-09-03	GRUBE; Gary W. et al.	
	133	5596696		1997-01-21	TINDELL; James M. et al.	
	134	5602992		1997-02-11	DANNEELS; Gunner	
	135	5623483		1997-04-22	AGRAWAL; Prathima et al.	
	136	5625350		1997-04-29	FUKATSU; Hitoshi et al.	
	137	5633871		1997-05-27	BLOKS; Rudolf H. J.	
	138	5636345		1997-06-03	VALDEVIT; Ezio	
	139	5640388		1997-06-17	WOODHEAD; Douglas F. et al.	
	140	5652749		1997-07-29	DAVENPORT; David William et al.	

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	141	5661665		1997-08-26	GLASS; Adam et al.	
	142	5661728		1997-08-26	FINOTELLO; Andrea et al.	
	143	5668884		1997-09-16	CLAIR Jr.; Roy Barry et al.	
	144	5673323		1997-09-30	SCHOTZ; Larry et al.	
	145	5696896		1997-12-09	BADOVINATZ; Peter Richard et al.	
	146	5726989		1998-03-10	DOKIC; Miroslav V.	
	147	5732059		1998-03-24	KATSUYAMA; Akira et al.	
	148	5740235		1998-04-14	LESTER; James William et al.	
	149	5742623		1998-04-21	NUBER; Ray et al.	
	150	5751819		1998-05-12	DORROUGH; Michael L.	
	151	5761320		1998-06-02	FARINELLI; Robert et al.	

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	152	5774016		1998-06-30	KETTERER; Ernest R.	
	153	5787249		1998-07-28	BADOVINATZ; Peter Richard et al.	
	154	5790543		1998-08-04	CLOUTIER; Leo	
	155	5808662		1998-09-15	KINNEY; Daniel Reid et al.	
	156	5812201		1998-09-22	YOO; Ki Ryung	
	157	5815689		1998-09-29	SHAW; George H. J. et al.	
	158	5818948		1998-10-06	GULICK; Dale E.	
	159	5832024		1998-11-03	SCHOTZ; Larry et al.	
	160	5838909		1998-11-17	ROY; H. Scott et al.	
	161	5848152		1998-12-08	SLIPY; Michael J. et al.	
	162	5852722		1998-12-22	HAMILTON; Graham	

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	163	5867691		1999-02-02	SHIRAISHI; Hajime	
	164	5875233		1999-02-23	COX; Daniel R.	
	165	5875354		1999-02-23	CHARLTON; Paul et al.	
	166	5887143		1999-03-23	SAITO; Masahiko et al.	
	167	5905768		1999-05-18	MATURI; Greg et al.	
	168	5917830		1999-06-29	CHEN; David et al.	
	169	5923869		1999-07-13	KASHIWAGI; Yoshiichiro et al.	
	170	5923902		1999-07-13	INAGAKI; Yoshihiro	
	171	5946343		1999-08-31	SCHOTZ; Larry et al.	
	172	5956025		1999-09-21	GOULDEN; Lorna et al.	
	173	5956088		1999-09-21	SHEN; Paul et al.	

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	174	5960006		1999-09-28	MATURI; Greg et al.	
	175	5984512		1999-11-16	JONES; Anthony Mark et al.	
	176	5987525		1999-11-16	ROBERTS; Dale Tyson et al.	
	177	5987611		1999-11-16	FREUND; Gregor	
	178	5990884		1999-11-23	DOUMA; Peter et al.	
	179	5991307		1999-11-23	KOMURO; Teruyoshi et al.	
	180	5999906		1999-12-07	MERCS; Laura et al.	
	181	6009457		1999-12-28	MOLLER; Matthew Donaldson	
	182	6018376		2000-01-25	NAKATANI; Shintarou	
	183	6026150		2000-02-15	FRANK; Edward H. et al.	
	184	6029196		2000-02-22	LENZ; Michael A.	

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	185	6031818		2000-02-29	LO; W. Steven et al.	
	186	6032202		2000-02-29	LEA; Rodger J [Us] et al.	
	187	6038614		2000-03-14	CHAN; Rix S. et al.	
	188	6046550		2000-04-04	FERENCE; Jonathan H. et al.	
	189	6061457		2000-05-09	STOCKHAMER; Lee	
	190	6078725		2000-06-20	TANAKA; Mitsumasa	
	191	6081266		2000-06-27	SCIAMMARELLA; Eduardo	
	192	6088063		2000-07-11	SHIBA; Kosuke	
	193	6101195		2000-08-08	LYONS; Paul Wallace et al.	
	194	6108485		2000-08-22	KIM; Jeong-Kyu	
	195	6108686		2000-08-22	WILLIAMS Jr.; ,Henry R.	

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	196	6122668		2000-09-19	TENG; Peter Y. et al.	
	197	6127941		2000-10-03	VAN RYZIN; John M.	
	198	6128318		2000-10-03	SATO; Takashi	
	199	6148205		2000-11-14	COTTON; Timothy R.	
	200	6154772		2000-11-28	DUNN; Bryan W. et al.	
	201	6157957		2000-12-05	BERTHAUD; Jean-Marc	
	202	6163647		2000-12-19	TERASHIMA; Masaru et al.	
	203	6169725		2001-01-02	GIBBS; Simon J. et al.	
	204	6175872		2001-01-16	NEUMANN; Eric K. et al.	
	205	6181383		2001-01-30	FOX; Edward C. et al.	
	206	6185737		2001-02-06	NORTHCUTT; J. Duane et al.	

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	207	6195435		2001-02-27	KITAMURA; John S.	
	208	6195436		2001-02-27	SCIBORA; Marco et al.	
	209	6199169		2001-03-06	VOTH; Duane J.	
	210	6212282		2001-04-03	MERSHON; Stuart	
	211	6246701		2001-06-12	SLATTERY; William	
	212	6253293		2001-06-26	RAO; Raghunath et al.	
	213	6255961		2001-07-03	VAN; Ryzin John M [Us] et al.	
	214	6256554		2001-07-03	DILORENZO; Mark	
	215	6269406		2001-07-31	DUTCHER; David Paul et al.	
	216	6301012		2001-10-09	WHITE; Craig R. et al.	
	217	6308207		2001-10-23	TSENG; Weinan William et al.	

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	218	6310652		2001-10-30	LI; Stephen et al.	
	219	6313879		2001-11-06	KUBO; Hiroaki et al.	
	220	6321252		2001-11-20	BHOLA; Sumeer et al.	
	221	6324586		2001-11-27	JOHNSON; Aric R.	
	222	6332147		2001-12-18	MORAN; Thomas P. et al.	
	223	6343028		2002-01-29	KUWAOKA; Toshiharu	
	224	6349285		2002-02-19	LIU; Pu et al.	
	225	6349339		2002-02-19	WILLIAMS; Henry R.	
	226	6349352		2002-02-19	LEA; Rodger J.	
	227	6351821		2002-02-26	VOTH; Duane J.	
	228	6353172		2002-03-05	FAY; Todor C. et al.	

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	229	6356871		2002-03-12	HEMKUMAR; Nariankadu Datatreya et al.	
	230	6404811		2002-06-11	CVETKO; John F. et al.	
	231	6418150		2002-07-09	STAATS; Erik P.	
	232	6430353		2002-08-06	HONDA; Susumu et al.	
	233	6442443		2002-08-27	FUJII; Kazuo et al.	
	234	6446080		2002-09-03	VAN; Ryzin John M. et al.	
	235	6449642		2002-09-10	BOURKE-DUNPHY ERIN MARIE . et al.	
	236	6449653		2002-09-10	KLEMETS; Anders Edgar et al.	
	237	6456783		2002-09-24	ANDO; Hideo et al.	
	238	6463474		2002-10-08	FUH; Tzong-Fen et al.	
	239	6466832		2002-10-15	ZUQERT; Benjamin et al.	

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	240	6469633		2002-10-22	WACHTER; Martin Richard [Us] et al.	
	241	6487296		2002-11-26	ALLEN; Steven W. et al.	
	242	6493832		2002-12-10	ITAKURA; Eisaburo et al.	
	243	6522886		2003-02-18	YOUNGS; Edward A. et al.	
	244	6526325		2003-02-25	SUSSMAN; Robert et al.	
	245	6526411		2003-02-25	WARD; Sean	
	246	6535121		2003-03-18	MATHNEY; Richard K. et al.	
	247	6587127		2003-07-01	LEEKE; Steven D. et al.	
	248	6598172		2003-07-22	VANDEUSEN; Mark P. et al.	
	249	6611537		2003-08-26	EDENS; Glenn T. et al.	
	250	6611813		2003-08-26	BRATTON; Timothy Robert	

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	251	6631410		2003-10-07	KOWALSKI; John Michael [Us] et al.	
	252	6636269		2003-10-21	BALDWIN; James A.	
	253	6639584		2003-10-28	LI; Chuang	
	254	6653899		2003-11-25	ORGANVIDEZ; Juan H. et al.	
	255	6654720		2003-11-25	GRAHAM; Stephen Glen et al.	
	256	6654956		2003-11-25	TRINH; Vincent et al.	
	257	6658091		2003-12-02	NAIDOO; Surendra N. et al.	
	258	6674803		2004-01-06	KESSELRING; William David	
	259	6684060		2004-01-27	CURTIN; Steven D.	
	260	6687664		2004-02-03	SUSSMAN; Robert et al.	
	261	6704421		2004-03-09	KITAMURA; John S.	

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	262	6741961		2004-05-25	LIM; Chae-Duck	
	263	6757517		2004-06-29	CHANG; Chin-Chi [Tw] et al.	
	264	6763274		2004-07-13	GILBERT; Erik J.	
	265	6778073		2004-08-17	LUTTER; Robert Pierce et al.	
	266	6778493		2004-08-17	ISHII; Atsushi	
	267	6778869		2004-08-17	CHAMPION; Mark	
	268	6795852		2004-09-21	KLEINROCK; Leonard et al.	
	269	6803964		2004-10-12	POST; Lauren Lee et al.	
	270	6809635		2004-10-26	KAARESOJA; Topi	
	271	6816510		2004-11-09	BANERJEE; Subrata	
	272	6816818		2004-11-09	WOLF; Michael Jaochim et al.	

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	273	6823225		2004-11-23	SASS; Jonathan	
	274	6826283		2004-11-30	WHEELER; Thomas M. et al.	
	275	6836788		2004-12-28	KIM; Sang-Gil et al.	
	276	6839752		2005-01-04	MILLER; Robert et al.	
	277	6859460		2005-02-22	CHEN; Michael C.	
	278	6859538		2005-02-22	VOLTZ; Christopher	
	279	6873862		2005-03-29	RESHEFSKY; Marc Alan	
	280	6882335		2005-04-19	SAARINEN; Pertti	
	281	6898642		2005-05-24	CHAFLE; Girish Bhimrao et al.	
	282	6901439		2005-05-31	BONASIA; Gaetano et al.	
	283	6907458		2005-06-14	TOMASSETTI; Stephen Robert et al.	

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	284	6910078		2005-06-21	RAMAN; Suchitra et al.	
	285	6912610		2005-06-28	SPENCER; Thomas Vincent	
	286	6915347		2005-07-05	HANKO; James G. et al.	
	287	6917592		2005-07-12	RAMANKUTTY; Rajesh et al.	
	288	6919771		2005-07-19	NAKAJIMA; Kouji	
	289	6920373		2005-07-19	XI; Ning et al.	
	290	6931557		2005-08-16	TOGAWA; Yoshifusa	
	291	6934766		2005-08-23	RUSSELL; Paul J.	
	292	6937988		2005-08-30	HEMKUMAR; Nariankadu Datatreya et al.	
	293	6970482		2005-11-29	KIM; Sung-Tae	
	294	6985694		2006-01-10	DE BONET; Jeremy S. et al.	

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	295	6987767		2006-01-17	SAITO; Tatsunori	
	296	7006758		2006-02-28	YAMAMOTO; Kaoru et al.	
	297	7007106		2006-02-28	FLOOD; Mark et al.	
	298	7020791		2006-03-28	AWEYA; James et al.	
	299	7043477		2006-05-09	MERCER; Ian Cameron et al.	
	300	7043651		2006-05-09	AWEYA; James et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

	1	2320451	CA	A1	2001-03-23	BONNEVILLE MARC ETIENNE [CA]		
	2	101292500	CN	A	2008-10-22	SONY ERICSSON MOBILE COMM AB.		
	3	1598767	CN	A	2005-03-23	XIAO XUEWEN.		
	4	0251584	EP	A2	1988-01-07	NORTHERN TELECOM LTD.		
	5	0672985	EP	A1	1995-09-20	INTERNATIONAL BUSINESS MACHINES.		
	6	0742674	EP	B1	2014-04-09	TOSHIBA KK [JP]		
	7	0772374	EP	A2	1997-05-07	BANG & OLUFSEN AS.		
	8	0895427	EP	A3	2006-01-18	SONY ELECTRONICS INC.		
	9	1111527	EP	A2	2001-06-27	KABUSHIKI KAISHA TOSHIBA.		
	10	1122931	EP	A2	2001-08-08	SHARP KABUSHIKI KAISHA.		
	11	1312188	EP	A1	2003-05-21	BRITISH TELECOMM [GB]		

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	12	1389853	EP	A1	2004-02-18	SONY INT EUROPE GMBH.		
	13	1410686	EP		2008-03-26	DOLBY LAB LICENSING CORPORATION.		
	14	1416687	EP	B1	2006-08-02	AVID TECHNOLOGY, INC.		
	15	1517464	EP	A2	2005-03-23	PHOENIX GOLD INTERNATIONAL INC.		
	16	2043381	EP	A2	2009-04-01	BANG & OLUFSEN AS.		
	17	2161950	EP	A2	2010-03-10	BANG & OLUFSEN AS.		
	18	2591617	EP	B1	2014-06-18	BANG & OLUFSEN AS.		
	19	2713281	EP		2004-04-02	SONOS, INC.		
	20	2284327	GB	A	1995-05-31	INTEL CORPORATION.		
	21	2338374	GB		1999-12-15	MOTOROLA LTD.		
	22	2379533	GB	A	2003-03-12	REQUEST MULTIMEDIA [US]		

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	23	2486183	GB		2012-06-13	CAMBRIDGE SILICON RADIO LIMITED.		
	24	07-210129	JP		1995-08-11	INTERNAT'L BUSINESS MACH CORP (IBM)		
	25	2000149391	JP	A	2000-05-30	VICTOR COMPANY OF JAPAN.		
	26	2001034951	JP		2001-02-09	SANYO ELECTRIC CO.		
	27	2002111817	JP		2002-04-12	NEC CORP.		
	28	2002123267	JP	A	2002-04-26	SONY CORP.		
	29	2002358241	JP	A	2002-12-13	VICTOR COMPANY OF JAPAN.		
	30	2003037585	JP		2003-02-07	SONY CORP.		
	31	2003101958	JP		2003-04-04	TOSHIBA CORP.		
	32	2003169089	JP	A	2003-06-13	ANCL INC., et al.		
	33	2003506765	JP	A	2003-02-18	CHUNG; Randall M.		

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	Attorney Docket Number	05-0601-CON0319A

	34	2005108427	JP		2005-04-21	RICOH KK.		
	35	2005136457	JP		2005-05-26	SANYO ELECTRIC CO. LTD.		
	36	2007241652	JP	A	2007-09-20	CORE COLORS INC.		
	37	2009075540	JP	A	2009-04-09	TOUCHTUNES MUSIC CORP.		
	38	2009135750	JP		2009-06-18	KYOCERA CORP.		
	39	2009506603	JP	A	2009-02-12	SONY ERICSSON MOBILE COMMUNICATIONS AB.		
	40	2009535708	JP		2009-10-01	MICROSOFT CORPORATION.		
	41	2009538006	JP	A	2009-10-29	SONY ERICSSON MOBILE COMMUNICATIONS AB.		
	42	2011130496	JP		2011-06-30	TOSHIBA CORP.		
	43	63269633	JP		1988-11-07	UNKNOWN.		
	44	439027	TW		2001-06-07	MITAC TECHNOLOGY CORP.		

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	45	0019693	WO	A1	2000-04-06	WIRELESS SYSTEM TECHNOLOGIES I [CA], et al.		
	46	0110125	WO	A1	2001-02-08	CHUNG, RANDALL M.		
	47	02073851	WO		2002-09-19	PULSE-LINK, INC.		
	48	03093950	WO	A2	2003-11-13	GOLDBERG DAVID [US], et al.		
	49	199525313	WO		1995-09-21	INTERNATIONAL BUSINESS MACHINE CORPORATION.		
	50	1999023560	WO		1999-05-14	COLLABORATION PROPERTIES, INC.		

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	Attorney Docket Number	05-0601-CON0319A

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	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

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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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58443

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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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1985	709/220.ccls.	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:13
S2	2193	ad$1hoc adj network$1	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:13
S3	438682	(wired, wireless)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S4	1521	S2 and S3	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S5	1082	S2 same S3	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S6	8	S5 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S7	29	S5 and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:17
S8	6	S7 and zone	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:18
S9	262	zone adj players	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:18
S10	4904	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:18
S11	728858	(wired, wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2009/01/09 12:19

			IBM_TDB			
S12	4102	S10 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:19
S13	2968	S10 same S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:19
S14	8	S13 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:19
S15	8	S14 and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:19
S16	29	S13 and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:20
S17	0	S9 and S16	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:20
S18	26	S9 and network	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:20
S20	8	(US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$).did.	USPAT; DERWENT	OR	ON	2009/01/13 13:01
S21	4909	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:26
S22	593	S21 and broadcast$3 near3 (period$6, interval$1, time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:27
S23	122	S21 and broadcast$3 adj (period$6, interval$1, time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2009/01/13 13:27

			IBM_TDB			
S24	0	S21 and broadcast$3 adj (period$6, interval$1, time) with expir$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:27
S25	2	S21 and broadcast$3 adj (period$6, interval$1, time) with (end$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:28
S26	7	S23 and (wep, ssid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 13:30
S27	0	zone adj player$1 same configur$5 with mode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:04
S28	18	zone adj player$1 same configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:04
S29	29	prob$3 near3 message and SSID and WEP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:10
S30	4	S29 and flag same broadcast	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:10
S31	0	broadcast adj storm same flag same probe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:12
S32	2	broadcast adj storm and flag same probe	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2009/01/13 17:13

			EPO; JPO; DERWENT; IBM_TDB			
S33	0	configuration adj mode and zone adj player	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:14
S34	2308	configuration adj mode and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:14
S35	528	configuration adj mode same controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:14
S36	0	S35 and "zone player"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:15
S37	0	S35 and "synchrony group"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:16
S38	266	S35 and group	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/13 17:16
S39	14	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/01/14 11:26
S40	2	zone adj player and (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2009/01/14 11:28

			IBM_TDB			
S41	1909	zone and (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 11:30
S42	153	zone same (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 11:30
S43	51	zone with (self, auto) near2 configur$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 11:30
S44	447	zone adj players	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:34
S45	5809	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:34
S46	1	S44 and S45	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:34
S47	101	S44 and network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:35
S48	79	S47 and (synchrony, group)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:36
S49	1404	zone near3 player$1	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2009/11/06 15:46

			EPO; JPO; DERWENT; IBM_TDB			
S50	2	S45 and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:46
S51	12	S45 same zone with (player$1, device$1, terminal$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:47
S52	2085	controller and ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:52
S53	1707	S52 and (configur$5, synchroni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:53
S54	57	S53 and (synchroniz$7) near5 operation$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:54
S55	14	S54 and (broadcast$3) with (packet, data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 15:55
S56	2	"20080267218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 16:19
S57	22	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$).did. or (US-7469139-$ or US-	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:16

		7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$).did.				
S58	2	"6349352".pn.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:17
S59	23	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:19
S60	15	S59 and synchron$7	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:20
S61	2	"20090259762"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:40
S62	51442	(zone, media) near3 player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:08
S63	20532	S62 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:08
S64	514	S63 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:08
S65	218	S64 and playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:09
S66	24	S65 and join$3 near3 network	US-PGPUB; USPAT; USOCR;	OR	ON	2011/03/03 18:09

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S67	1599	zone near3 player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:15
S68	473	S67 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:15
S69	6	S68 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:15
S70	496	zone adj player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:16
S71	1	S70 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:16
S72	145	S70 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:16
S73	0	S72 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:17
S74	71	S72 and network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:17
S75	151	(audio, media) adj player$1 with	US-PGPUB;	OR	ON	2011/03/03

		zone$2	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			18:22
S76	93	S75 and controller	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:22
S77	0	S76 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:22
S78	0	S75 and ad$1hoc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:23
S79	0	S76 and IP near2 broadcast	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:24
S80	0	S76 and datagrams near2 prob$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:24
S81	22189	secure near2 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:21
S82	10665	(unsecure, ad$1hoc) near2 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:22
S83	978	S81 and S82	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:22
S84	0	S83 and zone near2 player$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:22
S85	509	zone adj players	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:22

S86	0	S85 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:23
S87	8495	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:23
S88	1	S85 and S87	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:23
S89	9	S85 and (secure, private) near2 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:25
S90	473	zone adj player$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:27
S91	94	S90 and (secure, ad$1hoc)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:28
S92	37	S91 and network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:28
S93	8	S92 and join$3	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:28
S94	29	S92 not S93	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:30
S95	0	S90 and "wep key"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:31
S96	0	S90 and "wired equivalent privacy"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:31
S97	2098	media near2 player with (zones, area)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:31
S98	3	S97 and "wired equivalent privacy"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:32
S99	45961	Home near2 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:33
S100	374	S99 and ("wired equivalent privacy",	US-PGPUB;	OR	ON	2011/10/11

		HHID)	USPAT; DERWENT			12:33
S101	374	S99 and ("wired equivalent privacy")	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:33
S102	0	S101 and HHID	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:33
S103	0	S99 and HHID	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:34
S104	67	S101 and join$3 near5 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:34
S105	61	S101 and join$3 near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:34
S106	27	S81 and S105	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:35
S107	39	S105 and (secure, private) near2 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:35
S108	14	S82 and S107	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:35
S109	4	S108 and (media, playback, zone) near2 (device, terminal, apparatus)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:42
S110	31	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:48
S111	358248	(media, playback, zone) near2 (device, terminal, apparatus, player)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:20
S112	10969	S111 and home near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:20

S113	1507	S112 and zone$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:21
S114	34	S113 and WEP	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:21
S115	2	"20100245582"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:31
S116	743	wep and home near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:34
S117	98	S116 and zone$1	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:34
S118	10	S117 and join$4 near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:35
S119	0	S85 and WEp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:37
S120	665	home near2 network and WEP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:38
S121	357	S120 and (audio, music)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:38
S122	76	S121 and (connect44, join$4) near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 13:38
S123	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/13 15:40

		or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.				
S124	30	S123 and wired and wireless	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/13 15:40
S125	9	S123 and "network interface" same wired same wireless	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/13 15:43
S126	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/22 21:43
S127	16	S126 and configuration near3 (setting$1, information)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/22 21:44
S128	393	wep and request with configuration	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/23 00:47

S129	78	S128 and join$3 with network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/23 00:47
S130	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/06/12 14:09
S131	21	S130 and button	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/06/12 14:11
S132	5224	709/231.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:22
S133	4802	370/254.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:22
S134	0	S132 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S135	17	S133 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S136	2189	"L5" and (wired, wireless)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S147	77	(US-20060142034-$ or US-	US-PGPUB;	OR	OFF	2019/05/03

		20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	USPAT; DERWENT			17:04
S148	77	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or US-7792311-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 17:49
S150	19	S148 and wlan	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 17:50
S151	7	S148 and wlan with secure	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 17:50
S152	45	S148 and configuration	US-PGPUB; USPAT;	OR	OFF	2019/05/15 18:34

			DERWENT			
S153	1737	zone near2 players	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:20
S154	875	S153 and audio	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:20
S155	19	S154 and wlan	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:20
S156	531	networked with audio near3 system	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:22
S157	71	S156 and synchronized near3 playback	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:22
S158	39	S157 and (@ad<"20150604" or @rlad<"20050604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:23
S159	4	S157 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:24
S160	793	(media, zone) near2 players and synchronized with playback	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:26
S161	72	S156 and S160	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:26
S162	1	S161 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:26
S163	4974	(media, zone, audio) near2 players with (group$1, zone$1)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:27
S164	250	S163 and wlan	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 19:28
S165	27	S164 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:28
S166	310	S154 and grouping	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/15 19:31
S167	35	S166 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO;	OR	ON	2019/05/15 19:31

			DERWENT			
S168	257	(media, audio) adj player near2 (zone$1, group$1, grouping$1)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:36
S169	505	(media, audio) adj player with player near2 (zone$1, group$1, grouping$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/15 19:36
S170	52	S169 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:37
S171	874	networked same audio near3 system	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:39
S172	265	S171 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:40
S173	419	S156 and (@ad<"20150604" or @rlad<"20050604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:40
S174	105	S173 and group$4 with player$1	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:40
S175	1	"20040168081"	US-PGPUB	OR	ON	2019/05/20 16:00
S176	43	(US-20060142034-$ or US-20050170781-$ or US-20070038999-$ or US-20070022156-$ or US-20040103282-$ or US-20060280131-$ or US-20050283779-$ or US-20070022207-$ or US-20060205510-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-$ or US-20060224885-$ or US-20060221858-$ or US-20020176366-$ or US-20070264973-$ or US-20070233860-$ or US-20070106898-$ or US-20070061575-$ or US-20070050615-$ or US-20060251258-$ or US-20060045267-$ or US-20050266826-$).did. or (US-20040168081-$ or US-20040133689-$).did. or (US-7469139-$ or US-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$ or US-6349352-$ or US-7792311-$ or US-7805682-$ or US-7546357-$).did. or (US-20070022207-$ or US-20070022156-$ or WO-2005013047-$ or US-20070214229-$ or	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/20 17:37

		US-7792311-$).did.				
S177	3	S176 and audio near2 (network, system) and playback near3 (device, terminal, ue)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/20 17:38
S178	2	"20020124097"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/20 17:39
S179	475824	709/222.ccls. or H04L41/22.cpc. or G06F3/0481.cpc. or G06F3/0482.cpc. or G06F3/04842.cpc. or G06F3/04847.cpc. or H04L12/28.cpc. or H04L12/2803.cpc. or H04L12/2807.cpc. or H04L12/2809.cpc. or H04L41/0809.cpc. or H04L63/10.cpc. or H04L65/60.cpc. or H04L67/02.cpc. or H04L67/10.cpc. or H04L67/141.cpc. or H04W12/04.cpc. or H04W12/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:20
S180	629	S179 and ssid and wep near2 (key, password)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:20
S181	236	S180 and wlan	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:20
S182	51	S181 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:21
S183	51	S182 and access near2 point	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/26 18:21

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S137	6339	709/220.ccls.	US-PGPUB; USPAT	OR	OFF	2012/07/15 11:24

S138	3105	S137 and (wired, wireless)	US-PGPUB; USPAT	OR	ON	2012/07/15 11:25
S139	58	S138 and ssid and wep	US-PGPUB; USPAT	OR	ON	2012/07/15 11:25
S140	4	S139 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2012/07/15 11:25
S143	1080521	@ad >="20040606" and @ad<="20060606"	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S144	1141	S137 and S143	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S145	17	S144 and ssid and wep	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S146	1	S145 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29

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First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, Joon H.
Attorney Docket Number	05-0601-CON0319A

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	1	"884+ Automatic Matrix Mixer Control System," Ivie Technologies, Inc., 2000, pp. 1-4.
	2	Advanced Driver Tab User Interface WaveLan GUI Guide, AVAGO0009, Agere Systems, February 2004, 4 pages.
	3	Advisory Action mailed 02 February 2016, issued in connection with U.S. Patent Application No. 13/848921, filed on 22 March 2013, 8 pages.
	4	Advisory Action mailed 18 September 2008, issued in connection with U.S. Patent Application No. 10/816217, filed on 01 April 2004, 8 pages.
	5	Advisory Action mailed on 01 February 2016, issued in connection with U.S. Patent Application No. 13/864247, filed on 17 April 2013, 6 pages.
	6	Advisory Action mailed on 01 June 2015, issued in connection with U.S. Patent Application No. 14/516867, filed on 17 October 2014, 11 pages.
	7	Advisory Action mailed on 01 November 2013, issued in connection with U.S. Patent Application No. 13/618829, filed on 14 September 2012, 3 pages.
	8	Advisory Action mailed on 02 March 2015, issued in connection with U.S. Patent Application No. 13/848932, filed on 22 March 2013, 3 pages.
	9	Advisory Action mailed on 05 January 2012, issued in connection with U.S. Patent Application No. 12/035112, filed on 21 February 2008, 3 pages.
	10	Advisory Action mailed on 05 September 2014, issued in connection with U.S. Patent Application No. 13/907666, filed on 31 May 2013, 3 pages.
	11	Advisory Action mailed on 08 January 2015, issued in connection with U.S. Patent Application No. 13/705176, filed on 05 December 2012, 4 pages.

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	12	Advisory Action mailed on 08 March 2017, issued in connection with U.S. Patent Application No. 13/871795, filed on 26 April 2013, 22 pages.	
	13	Advisory Action mailed on 09 June 2016, issued in connection with U.S. Patent Application No. 13/871795, filed on 25 April 2013, 3 pages.	
	14	Advisory Action mailed on 10 August 2017, issued in connection with U.S. Patent Application No. 13/864250, filed on 17 April 2013, 3 pages.	
	15	Advisory Action mailed on 10 February 2016, issued in connection with U.S. Patent Application No. 13/871795, filed on 26 April 2013, 3 pages.	
	16	Advisory Action mailed on 12 November 2014, issued in connection with U.S. Patent Application No. 13/907666, filed on 31 May 2013, 6 pages.	
	17	Advisory Action mailed on 15 April 2015, issued in connection with U.S. Patent Application No. 14/184526, filed on 19 February 2014, 9 pages.	
	18	Advisory Action mailed on 15 April 2015, issued in connection with U.S. Patent Application No. 14/184935, filed on 20 February 2014, 9 pages.	
	19	Advisory Action mailed on 16 August 2017, issued in connection with U.S. Patent Application No. 13/864248, filed on 17 April 2013, 5 pages.	
	20	Advisory Action mailed on 20 June 2017, issued in connection with U.S. Patent Application No. 15/243355, filed on 22 August 2016, 5 pages.	
	21	Advisory Action mailed on 22 August 2017, issued in connection with U.S. Patent Application No. 13/864249, filed on 17 April 2013, 3 pages.	
	22	Advisory Action mailed on 25 March 2015, issued in connection with U.S. Patent Application No. 13/533105, filed on 26 June 2012, 5 pages.	

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	23	Advisory Action mailed on 26 February 2015, issued in connection with U.S. Patent Application No. 14/184528, filed on 19 February 2014, 3 pages.
	24	Advisory Action mailed on 26 November 2014, issued in connection with U.S. Patent Application No. 14/186850, filed on 21 February 2014, 9 pages.
	25	Advisory Action mailed on 27 April 2016, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 7 pages.
	26	Advisory Action mailed on 28 December 2016, issued in connection with U.S. Patent Application No. 13/705176, filed on 05 December 2012, 4 pages.
	27	Advisory Action mailed on 28 July 2015, issued in connection with U.S. Patent Application No. 14/184522, filed on 19 February 2014, 7 pages.
	28	Advisory Action mailed on 28 September 2009, issued in connection with U.S. Patent Application No. 10/816217, filed on 01 April 2004, 4 pages.
	29	Agere Systems' Voice-over-Wireless LAN (VoWLAN) Station Quality of Service, AVAGO0015, Agere Systems, January 2005, 5 pages.
	30	AKYILDIZ et al., "Multimedia Group Synchronization Protocols for Integrated Services Networks," IEEE Journal on Selected Areas in Communications, 1996 pp. 162-173, Vol. 14, No. 1.
	31	Audio Authority: How to Install and Use the Model 1154 Signal Sensing Auto Selector, 2002, 4 pages.
	32	Audio Authority: Model 1154B High Definition AV Auto Selector, 2008, 8 pages.
	33	AudioSource: AMP 100 User Manual, 2003, 4 pages.

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	34	AudioTron Quick Start Guide, Version 1.0, March 2001, 24 pages.	
	35	AudioTron Reference Manual, Version 3.0, May 2002, 70 pages.	
	36	AudioTron Setup Guide, Version 3.0, May 2002, 38 pages.	
	37	Automatic Profile Hunting Functional Description, AVAGO0013, Agere Systems, February 2004, 2 pages.	
	38	'A/V Surround Receiver AVR-5800," Denon Electronics, 2000, 2 pages.	
	39	'A/V System Controleer, Owner's Manual," B&K Compontents, Ltd., 1998, 52 pages.	
	40	AVTransport:1 Service Template Version 1.01 For UPnP, Version 1.0 (June 25, 2002) (66 pages).	
	41	AXIS Communication: AXIS P8221 Network I/O Audio Module, 2009, 41 pages.	
	42	BALDWIN, Roberto. "How-To: Setup iTunes DJ on Your Max and iPhone", available at http://www.maclife.com/article/howtos/howto_setup_itunes_dj_your_mac_and_iphone, archived on 3/17/ 2009, 4 pages.	
	43	BALFANZ et al., "Network-in-a-Box: How to Set Up a Secure Wireless Network in Under a Minute," 13th USENIX Security Symposium - Technical Paper, 2002, 23 pages.	
	44	BALFANZ et al., "Talking To Strangers: Authentication in Ad-Hoc Wireless Networks," Xerox Palo Alto Research Center, 2002, 13 pages.	

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	45	BARHAM et al., "Wide Area Audio Synchronisation," University of Cambridge Computer Laboratory, 1995, 5 pages.	
	46	BAUDISCH et al., "Flat Volume Control: Improving Usability by Hiding the Volume Control Hierarchy in the User Interface," 2004, 8 pages.	
	47	BENSLIMANE Abderrahim, "A Multimedia Synchronization Protocol for Multicast Groups," Proceedings of the 26th Euromicro Conference, 2000, pp. 456-463, Vol. 1.	
	48	BIERSACK et al., "Intra- and Inter-Stream Synchronization for Stored Multimedia Streams," IEEE International Conference on Multimedia Computing and Systems, 1996, pp. 372-381.	
	49	BLAKOWSKI G. et al., "A Media Synchronization Survey: Reference Model, Specification, and Case Studies," January 1996, pp. 5-35, Vol. 14, No. 1.	
	50	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.	

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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).

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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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58443

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., Defendant's Amended Invalidity Contentions, filed September 14, 2016, 100 pages.	
	2	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions, filed April 15, 2016, 97 pages.	
	3	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Preliminary Identification of Indefinite Terms, provided July 29, 2016, 8 pages.	
	4	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' 35 U.S.C. § 282 Notice filed November 2, 2017, 31 pages.	
	5	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Amended Answer, Defenses, and Counterclaims for Patent Infringement, filed November 30, 2015, 47 pages.	
	6	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Answer to Plaintiff's Second Amended Complaint, filed April 30, 2015, 19 pages.	
	7	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' First Amended Answer to Plaintiffs' Third Amended Complaint, filed September 7, 2016, 23 pages.	
	8	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.	
	9	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.	
	10	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.	
	11	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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	12	Sonos, Inc. v. D&M Holdings Inc. et al., First Amended Complaint for Patent Infringement, filed December 17, 2014, 26 pages.	
	13	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.	
	14	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.	
	15	Sonos, Inc. v. D&M Holdings Inc. et al., Plaintiff Sonos, Inc.'s Opening Claim Construction Brief, filed September 9, 2016, 26 pages.	
	16	Sonos, Inc. v. D&M Holdings Inc. et al., Plaintiff Sonos, Inc.'s Response in Opposition to Defendants' Partial Motion for Judgment on the Pleadings, filed May 27, 2016, 24 pages.	
	17	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.	
	18	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 September 9, 2016, 16 pages.	
	19	Sonos, Inc. v. D&M Holdings Inc. et al., Second Amended Complaint for Patent Infringement, filed February 27, 2015, 49 pages.	
	20	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.	
	21	Sonos, Inc. v. D&M Holdings Inc. et al., Sonos's Opposition to Defendants' Motion for Leave to Amend their Answer to Add the Defense of Inequitable Conduct, provided October 31, 2016, 26 pages.	
	22	Sonos, Inc. v. D&M Holdings Inc. et al., Third Amended Complaint for Patent Infringement, filed January 29, 2016, 47 pages.	

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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

	23	Sonos, Inc. v. D&M Holdings, Inc. (No. 14-1330-RGA), Defendants' Final Invalidity Contentions (Jan. 18, 2017) (106 pages).	
	24	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 226, Opinion Denying Inequitable Conduct Defenses, Feb. 6, 2017, updated, 5 pages.	
	25	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 242, US District Judge Andrews 101 Opinion, Mar. 13, 2017, 16 pages.	
	26	Sonos, Inc. v D&M Holdings, Sonos Supp Opening Markman Brief including Exhibits, 3 March 2017, 17 pages.	
	27	Sonos, Inc. v. D&M Holdings, Sonos Supp Reply Markman Brief including Exhibits, 29 March 2017, 36 pages.	
	28	Sonos, Inc. v. D&M Holdings Inc. et al., Declaration of Steven C. Visser, executed September 9, 2016, 40 pages.	
	29	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.	
	30	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.	
	31	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.	
	32	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.	
	33	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.	

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	34	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.	
	35	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.	
	36	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.	
	37	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.	
	38	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.	
	39	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.	
	40	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.	
	41	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.	
	42	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.	
	43	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.	
	44	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 2: Defendants' Invalidity Contentions for U.S. Patent No. 8,588,949 filed April 15, 2016, 112 pages.	

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	47	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 5: Defendants' Invalidity Contentions for U.S. Patent No. 8,938,637 filed April 15, 2016, 177 pages.	
	48	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 6: Defendants' Invalidity Contentions for U.S. Patent No. 9,042,556 filed April 15, 2016, 86 pages.	
	49	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 7: Defendants' Invalidity Contentions for U.S. Patent No. 9,130,771 filed April 15, 2016, 203 pages.	
	50	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 8: Defendants' Invalidity Contentions for U.S. Patent No. 9,195,258 filed April 15, 2016, 400 pages.	

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	Art Unit	2447
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	Attorney Docket Number	05-0601-CON0319A

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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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58443

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Application Number	16298515
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First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, JOON H
Attorney Docket Number	05-0601-CON0319A

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	1	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.	
	2	Non-Final Office Action mailed on 01 September 2010, issued in connection with U.S. Patent Application No. 11/147116, filed 06 June 2005, 36 pages.	
	3	Non-Final Office Action mailed on 02 November 2016, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 37 pages.	
	4	Non-Final Office Action mailed on 03 February 2009, issued in connection with U.S. Patent Application No. 11/147116, filed on 06 June 2005, 32 pages.	
	5	Non-Final Office Action mailed on 03 January 2017, issued in connection with U.S. Patent Application No. 14/808875, filed on 24 July 2015, 10 pages.	
	6	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.	
	7	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.	
	8	Non-Final Office Action mailed on 03 October 2014, issued in connection with U.S. Patent Application No. 13/863083, filed on 15 April 2013, 22 pages.	
	9	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.	
	10	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.	
	11	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.	

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	12	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.	
	13	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.	
	14	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.	
	15	Non-Final Office Action mailed on 07 July 2015, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 22 pages.	
	16	Non-Final Office Action mailed on 07 November 2011, issued in connection with U.S. Patent Application No. 11/147116, filed 06 June 2005, 48 pages.	
	17	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.	
	18	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.	
	19	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.	
	20	Non-Final Office Action mailed on 10 April 2017, issued in connection with U.S. Patent Application No. 13/871785, filed on 26 April 2013, 10 pages.	
	21	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.	
	22	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.	

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	25	Non-Final Office Action mailed on 12 January 2017, issued in connection with U.S. Patent Application No. 13/895076, filed on 15 May 2013, 10 pages.	
	26	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.	
	27	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.	
	28	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.	
	29	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.	
	30	Non-Final Office Action mailed on 15 August 2017, issued in connection with U.S. Patent Application No. 14/184522, filed on 19 February 2014, 11 pages.	
	31	Non-Final Office Action mailed on 15 July 2016, issued in connection with U.S. Patent Application No. 14/803953, filed on 20 July 2015, 20 pages.	
	32	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.	
	33	Non-Final Office Action mailed on 17 August 2017, issued in connection with U.S. Patent Application No. 14/184528, filed on 19 February 2014, 12 pages.	

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	35	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.	
	36	Non-Final Office Action mailed on 18 January 2013, issued in connection with U.S. Patent Application No. 13/618829, filed on 14 September 2012, 58 pages.	
	37	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.	
	38	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.	
	39	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.	
	40	Non-Final Office Action mailed on 20 April 2017, issued in connection with U.S. Patent Application No. 90/013882, filed on 27 December 2016, 197 pages.	
	41	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.	
	42	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.	
	43	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.	
	44	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.	

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	46	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.	
	47	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.	
	48	Non-Final Office Action mailed on 23 July 2018, issued in connection with U.S. Patent Application No. 15/091113, filed on 5 April 2016, 19 pages.	
	49	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.	
	50	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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☒ 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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58,443

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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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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Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, Joon H.
Attorney Docket Number	05-0601-CON0319A

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	1	WaveLAN Wireless Integration Developer Kit (WI-DK) for Access Point Developers, AVAGO0054, Agere Systems, July 2003, 2 pages.	
	2	WaveLAN Wireless Integration-Developer Kit (WI-DK) Hardware Control Function (HCF), AVAGO0052, Agere Systems, July 2003, 2 pages.	
	3	"Welcome. You're watching Apple TV." Apple TV 1st Generation Setup Guide, 8 April 2008 Retrieved 10/14/14, 40 pages.	
	4	"Welcome. You're watching Apple TV." Apple TV 2nd Generation Setup Guide, 10 March 2011 Retrieved 10/16/14, 36 pages.	
	5	"Welcome. You're watching Apple TV." Apple TV 3rd Generation Setup Guide, 16 March 2012 Retrieved 10/16/14, 36 pages.	
	6	WI-DK Release 2 WaveLan Embedded Drivers for VxWorks and Linux, AVAGO0056, Agere Systems, July 2003, 2 pages.	
	7	WI-DK Release 2 WaveLan END Reference Driver for VxWorks, AVAGO0044, Agere Systems, July 2003, 4 pages.	
	8	WI-DK Release 2 WaveLan LKM Reference Drivers for Linux, AVAGO0048, Agere Systems, July 2003, 4 pages.	
	9	Windows Media Connect Device Compatibility Specification (April 12, 2004) (16 pages).	
	10	WPA Reauthentication Rates, AVAGO0063, Agere Systems, February 2004, 3 pages.	
	11	Yamaha DME 32 manual: copyright 2001.	

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	12	Yamaha DME 64 Owner's Manual; copyright 2004, 80 pages.	
	13	Yamaha DME Designer 3.5 setup manual guide; copyright 2004, 16 pages.	
	14	Yamaha DME Designer 3.5 User Manual; Copyright 2004, 507 pages.	
	15	Yamaha DME Designer software manual: Copyright 2004, 482 pages.	
	16	"Symantec pcAnywhere User's Guide," v 10.5.1, 1995-2002, 154 pages.	
	17	"Systemline Modular Installation Guide, Multiroom System," Systemline, 2003, pp. 1-22.	
	18	"ZR-8630AV MultiZone Audio/Video Receiver, Installation and Operation Guide," Niles Audio Corporation, 2003, 86 pages.	
	19	ZX135: Installation Manual,LA Audio, April 2003, 44 pages.	
	20	WANPPPConnection:1 Service Template Version 1.01 For UPnP, Version 1.0 (November 12, 2001) (D+M_0401918-2006) (89 pages).	
	21	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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	Attorney Docket Number	05-0601-CON0319A

EXAMINER SIGNATURE			
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CERTIFICATION STATEMENT

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Signature	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E.Coyne	Registration Number	58443

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Application Number	16298515
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First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, JOON H
Attorney Docket Number	05-0601-CON0319A

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	Attorney Docket Number	05-0601-CON0319A

	1	LIENHART et al., "On the Importance of Exact Synchronization for Distributed Audio Signal Processing," Session L: Poster Session II - ICASSP'03 Papers, 2002, 1 page.	
	2	LinkSys by Cisco, Wireless Home Audio Controller, Wireless-N Touchscreen Remote DMRW1000 Datasheet, Copyright 2008, 2 pages.	
	3	LinkSys by Cisco, Wireless Home Audio Controller, Wireless-N Touchscreen Remote DMRW1000 User Guide, Copyright 2008, 64 pages.	
	4	LinkSys by Cisco, Wireless Home Audio Player, Wireless-N Music Extender DMP100 Quick Installation Guide, Copyright 2009, 32 pages.	
	5	LinkSys by Cisco, Wireless Home Audio Player, Wireless-N Music Extender DMP100 User Guide, Copyright 2008, 65 pages.	
	6	Linux SDK for UPnP Devices v. 1.2 (Sep. 6, 2002) (101 pages).	
	7	"Linux SDK for UPnP Devices vl.2," Intel Corporation, January 17, 2003, 102 pages.	
	8	LIU et al., "A synchronization control scheme for real-time streaming multimedia applications," Packet Video, 2003, 10 pages, Vol. 2003.	
	9	LIU et al., "Adaptive Delay Concealment for Internet Voice Applications with Packet-Based Time-Scale Modification," Information Technologies 2000, pp. 91-102.	
	10	LOUDERBACK, Jim, "Affordable Audio Receiver Furnishes Homes With MP3," TechTV Vault. 28 June 2000 retrieved 10 July 2014, 2 pages.	
	11	Maniactools, "Identify Duplicate Files by Sound," 09/28/2010, http://www.maniactools.com/soft/music-duplicate-remover/identify-duplicate-files-by-sound.shtml.	

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	12	MediaRenderer:1 Device Template Version 1.01 For UPnP, Version 1.0 (June 25, 2002) (12 pages).	
	13	MediaServer:1 Device Template Version 1.01 For UPnP, Version 1.0 (June 25, 2002) (12 pages).	
	14	Microsoft, Universal Plug and Play (UPnP) Client Support ("Microsoft UPnP") (August 2001) (D+M_0402007-24) (18 pages).	
	15	Microsoft Window's XP Reviewer's Guide (August 2001) (D+M_0402225-85) (61 pages).	
	16	"Microsoft Windows XP File and Printer Share with Microsoft Windows" Microsoft Windows XP Technical Article, 2003, 65 pages.	
	17	MILLS David L., "Network Time Protocol (Version 3) Specification, Implementation and Analysis," Network Working Group, March 1992, 7 pages.	
	18	MILLS, David L., "Precision Synchronization of Computer Network Clocks," ACM SIGCOMM Computer Communication Review, 1994, pp. 28-43, Vol. 24, No. 2.	
	19	"Model MRC44 Four Zone - Four Source Audio/Video Controller/Amplifier System," Xantech Corporation, 2002, 52 pages.	
	20	MOTOROLA, "Simplefi, Wireless Digital Audio Receiver, Installation and User Guide," December 31, 2001, 111 pages.	
	21	"SMPTE Made Simple: A Time Code Tutor by Timeline," 1996, 46 pages.	
	22	Network Time Protocol (NTP), RFC 1305 (Mar. 1992) (D+M_0397417-536) (120 pages).	

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	23	'NexSys Software v.3 Manual," Crest Audio, Inc., 1997, 76 pages.	
	24	NIEDERST, JENNIFER "O'Reilly Web Design in a Nutshell," Second Edition, September 2001, 678 pages.	
	25	NILSSON, M., "ID3 Tag Version 2," March 26,1998, 28 pages.	
	26	Non-Final Office Action mailed 01 May 2014, issued in connection with U.S. Patent Application No. 14/184522, filed 19 February 2014, 31 pages.	
	27	Non-Final Office Action mailed 05 December 2013, issued in connection with U.S. Patent Application No. 13/827653, filed 14 March 2013, 28 pages.	
	28	Non-Final Office Action mailed 05 January 2012, issued in connection with U.S. Patent Application No. 13/298090, filed on 16 November 2011, 40 pages.	
	29	Non-Final Office Action mailed 06 May 2014, issued in connection with U.S. Paten Application No. 13/705176, filed 05 December 2012, 23 pages.	
	30	Non-Final Office Action mailed 07 September 2016, issued in connection with U.S. Patent Application No. 13/864248, filed 17 April 2013, 12 pages.	
	31	Non-final Office Action mailed 10 April 2013, issued in connection with U.S. Patent Application No. 13/619237, filed 14 September 2012, 10 pages.	
	32	Non-Final Office Action mailed 12 May 2014, issued in connection with U.S. Patent Application No. 14/184528, filed 19 February 2014, 23 pages.	
	33	Non-Final Office Action mailed 14 May 2014, issued in connection with U.S. Patent Application No. 13/848932, filed 22 March 2013, 14 pages.	

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	34	Non-Final Office Action mailed 17 June 2014, issued in connection with U.S. Patent Application No. 14/176808, filed 10 February 2014, 6 pages.	
	35	Non-Final Office Action mailed 18 December 2013, issued in connection with U.S. Patent Application No. 13/907666, filed 31 May 2013, 12 pages.	
	36	Non-Final Office Action mailed 18 January 2008, issued in connection with U.S. Patent Application No. 10/816217, filed 01 April 2004, 38 pages.	
	37	Non-Final Office Action mailed 19 April 2010, issued in connection with U.S. Patent Application No. 11/801468, filed 09 May 2007, 16 pages.	
	38	Non-Final Office Action mailed 19 March 2013, issued in connection with U.S. Patent Application No. 13/724048, filed 21 December 2012, 9 pages.	
	39	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.	
	40	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.	
	41	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.	
	42	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.	
	43	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.	
	44	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.	

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	45	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.	
	46	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.	
	47	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.	
	48	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.	
	49	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.	
	50	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.	

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Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	05/27/2019

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58,443

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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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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First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, JOON H
Attorney Docket Number	05-0601-CON0319A

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	1	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.	
	2	Notice of Allowance mailed on 13 July 2017, issued in connection with U.S. Patent Application No. 13/895076, filed on 15 May 2013, 10 pages.	
	3	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.	
	4	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.	
	5	Notice of Allowance mailed on 14 August 2012, issued in connection withU.S. Patent Application No. 11/147116, filed on 06 June 2005, 33 pages.	
	6	Notice of Allowance mailed on 14 December 2016, issued in connection with U.S. Patent Application No. 15/088906, filed on 01 April 2016, 9 pages.	
	7	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.	
	8	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.	
	9	Notice of Allowance mailed on 15 March 2017, issued in connection with U.S. Patent Application No. 15/080716, filed on 25 March 2016, 7 pages.	
	10	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.	
	11	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.	

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	12	Notice of Allowance mailed on 17 May 2018, issued in connection with U.S. Patent Application No. 14/805085, filed on 21 July 2015, 18 pages.	
	13	Notice of Allowance mailed on 18 July 2014, issued in connection with U.S. Patent Application No. 13/618829, filed on 14 September 2012, 8 pages.	
	14	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.	
	15	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.	
	16	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.	
	17	Notice of Allowance mailed on 22 December 2016, issued in connection with U.S. Patent Application No. 15/080716, filed on 25 March 2016, 9 pages.	
	18	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.	
	19	Notice of Allowance mailed on 23 November 2016, issued in connection with U.S. Patent Application No. 14/803953, filed on 20 July 2015, 21 pages.	
	20	Notice of Allowance mailed on 24 September 2015, issued in connection with U.S. Patent Application No. 13/705174, filed on 05 December 2012, 7 pages.	
	21	Notice of Allowance mailed on 24 September 2015, issued in connection with U.S. Patent Application No. 14/184935, filed on 20 February 2014, 7 pages.	
	22	Notice of Allowance mailed on 25 April 2017, issued in connection with U.S. Patent Application No. 15/156392, filed on 17 May 2016, 8 pages.	

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	23	Notice of Allowance mailed on 25 September 2014, issued in connection with U.S. Patent Application No. 14/176808, filed on 10 February 2014, 5 pages.	
	24	Notice of Allowance mailed on 27 April 2015, issued in connection with U.S. Patent Application No. 13/932864, filed on 01 July 2013, 20 pages.	
	25	Notice of Allowance mailed on 27 August 2015, issued in connection with U.S. Patent Application No. 13/705177, filed on 05 December 2012, 34 pages.	
	26	Notice of Allowance mailed on 27 August 2015, issued in connection with U.S. Patent Application No. 14/505027, filed on 02 October 2014, 18 pages.	
	27	Notice of Allowance mailed on 27 December 2011, issued in connection with U.S. Patent Application No. 10/816217, filed 01 April 2004, 15 pages.	
	28	Notice of Allowance mailed on 27 March 2017, issued in connection with U.S. Patent Application No. 15/089758, filed on 04 April 2016, 7 pages.	
	29	Notice of Allowance mailed on 28 March 2017, issued in connection with U.S. Patent Application No. 15/088906, filed on 01 April 2016, 7 pages.	
	30	Notice of Allowance mailed on 28 March 2017, issued in connection with U.S. Patent Application No. 15/155149, filed on 16 May 2016, 7 pages.	
	31	Parasound Zpre2 Zone Preamplifier with PTZI Remote Control, 2005, 16 pages.	
	32	Notice of Allowance mailed on 28 November 2017, issued in connection with U.S. Patent Application No. 15/091014, filed on 05 April 2016, 8 pages.	
	33	Notice of Allowance mailed on 29 April 2015, issued in connection with U.S. Patent Application No. 13/863083, filed on 15 April 2013, 19 pages.	

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	34	Notice of Allowance mailed on 29 July 2015, issued in connection with U.S. Patent Application No. 13/359976, filed on 27 January 2012, 28 pages.	
	35	Notice of Allowance mailed on 29 July 2015, issued in connection with U.S. Patent Application No. 14/186850, filed on 21 February 2014, 9 pages.	
	36	Notice of Allowance mailed on 29 March 2017, issued in connection with U.S. Patent Application No. 14/803953, filed on 20 July 2015, 8 pages.	
	37	Notice of Allowance mailed on 3 April 2017, issued in connection with U.S. Patent Application No. 15/088678, filed on 1 April 2016, 8 pages.	
	38	Notice of Allowance mailed on 30 August 2016, issued in connection with U.S. Patent Application No. 14/290493, filed on 29 May 2014, 7 pages.	
	39	Notice of Allowance mailed on 30 July 2015, issued in connection with U.S. Patent Application No. 13/705178, filed on05 December 2012, 18 pages.	
	40	Notice of Allowance mailed on 30 March 2017, issued in connection with U.S. Patent Application No. 15/088532, filed on 01 April 2016, 7 pages.	
	41	Notice of Allowance mailed on 5 August 2015, issued in connection with U.S. Patent Application No. 13/435776, filed on 30 March 2012, 26 pages.	
	42	Notice of Allowance mailed on 6 April 2017, issued in connection with U.S. Patent Application No. 15/088283, filed on 1 April 2016, 7 pages.	
	43	Notice of Allowance mailed on 6 July 2015, issued in connection with U.S. Patent Application No. 13/297000, filed on 15 November 2011, 24 pages.	
	44	Notice of Incomplete Re-Exam Request mailed on 25 May 2017, issued in connection with U.S. Patent Application No. 90/013959 , filed on 01 April 2016, 10 pages.	

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	45	Notice of Intent to Issue Re-Examination Certificate mailed on 03 August 2017, issued in connection with U.S. Patent Application No. 90/013882, filed on 27 December 2016, 20 pages.	
	46	NUTZEL et al., "Sharing Systems for Future HiFi Systems," IEEE, 2004, 9 pages.	
	47	Office Action in Ex Parte Reexamination mailed on 20 October 2017, issued in connection with U.S. Patent Reexamination Application No. 90/013959, filed on 16 June 2017, 50 pages.	
	48	"Sonos Multi-Room Music System User Guide," Version 090401, Sonos, Inc. 1 April 2009, 256 pages.	
	49	Palm, Inc., "Handbook for the Palm VII Handheld," May 2000, 311 pages.	

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Signature	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-02
Name/Print	Michael E. Coyne	Registration Number	58443

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Doc description: Information Disclosure Statement (IDS) Filed

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	5	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.	
	6	Non-Final Office Action mailed on 26 July 2017, issued in connection with U.S. Patent Application No. 13/705176, filed on 05 December 2012, 14 pages.	
	7	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.	
	8	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.	
	9	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.	
	10	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.	
	11	Non-Final Office Action mailed on 29 November 2016, issued in connection with U.S. Patent Application No. 13/894179, filed on 14 May 2013, 14 pages.	

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	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	12	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.	
	13	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.	
	14	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.	
	15	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.	
	16	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.	
	17	Non-Final Office Action mailed on 31 December 2013, issued in connection with U.S. Patent Application No. 13/618829, filed 14 September 2012, 26 pages.	
	18	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.	
	19	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.	
	20	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.	
	21	Notice of Allowance mailed on 01 June 2017, issued in connection with U.S. Patent Application No. 14/290493, filed on 29 May 2014, 12 pages.	
	22	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.	

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	23	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.	
	24	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.	
	25	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.	
	26	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.	
	27	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.	
	28	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.	
	29	Notice of Allowance mailed on 02 June 2017, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 10 pages.	
	30	Notice of Allowance mailed on 03 April 2017, issued in connection with U.S. Patent Application No. 15/088678, filed on 01 April 2016, 8 pages.	
	31	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.	
	32	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.	
	33	Notice of Allowance mailed on 04 October 2017, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 8 pages.	

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	34	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.
	35	Notice of Allowance mailed on 06 March 2014, issued in connection with U.S. Patent Application No. 13/827653, filed 14 March 2013, 17 pages.
	36	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.
	37	Notice of Allowance mailed on 06 September 2013, issued in connection with U.S. Patent Application No. 13/619237, filed on 14 September 2012, 10 pages.
	38	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.
	39	Notice of Allowance mailed on 07 December 2016, issued in connection with U.S. Patent Application No. 15/156392, filed on 17 May 2016, 9 pages.
	40	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.
	41	Notice of Allowance mailed on 09 March 2017, issued in connection with U.S. Patent Application No. 15/080591, filed on 25 March 2016, 7 pages.
	42	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.
	43	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.
	44	Notice of Allowance mailed on 10 February 2017, issued in connection with U.S. Application No. 14/290493, filed on 29 May 2014, 13 pages.

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	45	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.	
	46	Notice of Allowance mailed on 11 April 2016, issued in connection with U.S. Patent Application No. 13/864247, filed on 17 April 2013, 21 pages.	
	47	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.	
	48	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.	
	49	Notice of Allowance mailed on 12 July 2017, issued in connection with U.S. Patent Application No. 13/894179, filed on 14 May 2013, 10 pages.	
	50	Notice of Allowance mailed on 13 December 2016, issued in connection with U.S. Patent Application No. 15/080591, filed on 25 March 2016, 9 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.

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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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58,443

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Attorney Docket Number	05-0601-CON0319A

U.S.PATENTS Remove

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
	1	7046677		2006-05-16	MONTA; Peter et al.	
	2	7047308		2006-05-16	DESHPANDE; Sachin G.	
	3	7054888		2006-05-30	LACHAPELLE; Kevin Leigh et al.	
	4	7058889		2006-06-06	TROVATO; Karen I. et al.	
	5	7068596		2006-06-27	MOU; Hensen	
	6	7092528		2006-08-15	PATRICK; Kyle N. et al.	
	7	7092694		2006-08-15	GRIEP; Pieter Dingenis et al.	
	8	7096169		2006-08-22	CRUTCHFIELD; William G. et al.	

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	9	7102513		2006-09-05	TASKIN; Metin Ismail et al.	
	10	7113999		2006-09-26	PESTONI; Florian et al.	
	11	7115017		2006-10-03	LAURSEN; Thomas et al.	
	12	7120168		2006-10-10	ZIMMERMANN; Klaus	
	13	7130316		2006-10-31	KOVACEVIC; Branko D.	
	14	7130368		2006-10-31	AWEYA; James et al.	
	15	7130608		2006-10-31	HOLLSTROM; Magnus et al.	
	16	7130616		2006-10-31	JANIK; Craig M.	
	17	7136934		2006-11-14	CARTER; Harry Nick et al.	
	18	7139981		2006-11-21	MAYER; Theodore et al.	
	19	7143141		2006-11-28	MORGAN; Jeffrey A. et al.	

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	20	7143939		2006-12-05	HENZERLING; David P.	
	21	7146260		2006-12-05	PRESTON; Dan Alan et al.	
	22	7158488		2007-01-02	FUJIMORI; Junichi	
	23	7161939		2007-01-09	ISRAEL; David et al.	
	24	7162315		2007-01-09	GILBERT; Erik J.	
	25	7164694		2007-01-16	NODOUSHANI; Paiman et al.	
	26	7167765		2007-01-23	JANIK; Craig M.	
	27	7185090		2007-02-27	KOWALSKI; John Michael et al.	
	28	7187947		2007-03-06	WHITE; Russell W. et al.	
	29	7188353		2007-03-06	CRINON; Regis J.	
	30	7197148		2007-03-27	NOURSE; James D. et al.	

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	31	7206367		2007-04-17	MOORE; Daniel L [Us] et al.	
	32	7206618		2007-04-17	LATTO; Antonio T. et al.	
	33	7206967		2007-04-17	MARTI; Philippe et al.	
	34	7209795		2007-04-24	SULLIVAN; Gary E. et al.	
	35	7218708		2007-05-15	BEREZOWSKI; Andrew G. et al.	
	36	7218930		2007-05-15	KO; Ming-Chih et al.	
	37	7236739		2007-06-26	CHANG; Chin-Chi [Tw] et al.	
	38	7236773		2007-06-26	THOMAS; Graham	
	39	7251533		2007-07-31	YOON; Hong S. et al.	
	40	7257398		2007-08-14	UKITA; Yoshitaka et al.	
	41	7260616		2007-08-21	COOK; Fred S.	

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	42	7263070		2007-08-28	DELKER; Jason et al.	
	43	7263110		2007-08-28	FUJISHIRO; Yoshiya	
	44	7277547		2007-10-02	DELKER; Jason R. et al.	
	45	7286652		2007-10-23	AZRIEL; Gad et al.	
	46	7289631		2007-10-30	ISHIDOSHIRO; Takashi	
	47	7293060		2007-11-06	KOMSI; Asko	
	48	7295548		2007-11-13	BLANK; William Thomas [Us] et al.	
	49	7305694		2007-12-04	COMMONS; Christopher et al.	
	50	7308188		2007-12-11	NAMATAME; Kazushi	
	51	7310334		2007-12-18	FITZGERALD; Cary et al.	
	52	7312785		2007-12-25	TSUK; Robert W. et al.	

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	53	7313593		2007-12-25	PULITO; Brian et al.	
	54	7319764		2008-01-15	REID; Glenn et al.	
	55	7324857		2008-01-29	GODDARD; Mark D.	
	56	7330875		2008-02-12	PARASNIS; Shashank Mohan et al.	
	57	7333519		2008-02-19	SULLIVAN; Gary E. et al.	
	58	7356011		2008-04-08	WATERS; Christopher J. F. et al.	
	59	7359006		2008-04-15	XIANG; Shuhua et al.	
	60	7366206		2008-04-29	LOCKRIDGE; Terry Wayne et al.	
	61	7372846		2008-05-13	ZWACK; Eduard	
	62	7383036		2008-06-03	KANG; Sung H. et al.	
	63	7391791		2008-06-24	BALASSANIAN; Edward et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	64	7392102		2008-06-24	SULLIVAN; Gary E. et al.	
	65	7392481		2008-06-24	GEWICKEY; Greg et al.	
	66	7394480		2008-07-01	SONG; Young-Joong	
	67	7400644		2008-07-15	SAKAMOTO; Ichiro et al.	
	68	7412499		2008-08-12	CHANG; Chun-Shi et al.	
	69	7428310		2008-09-23	PARK; Jeong-Hyun	
	70	7430181		2008-09-30	HONG; Jay Wu	
	71	7433324		2008-10-07	SWITZER; David et al.	
	72	7434166		2008-10-07	ACHARYA; Shrikant et al.	
	73	7457948		2008-11-25	BILICKSA; Carl et al.	
	74	7469139		2008-12-23	VAN DE GROENENDAAL; Joannes G.	

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	75	7472058		2008-12-30	TSENG; Wei-Hsin et al.	
	76	7474677		2009-01-06	TROTT; Christian A.	
	77	7483538		2009-01-27	MCCARTY; William A. et al.	
	78	7483540		2009-01-27	RABINOWITZ; William M. et al.	
	79	7483958		2009-01-27	ELABBADY; Tarek Z. et al.	
	80	7492912		2009-02-17	CHUNG; Yun M. et al.	
	81	7505889		2009-03-17	SALMONSEN; Daniel R. et al.	
	82	7509181		2009-03-24	CHAMPION; Mark	
	83	7519667		2009-04-14	CAPPS; Stephen P.	
	84	7548744		2009-06-16	OESTERLING; Christopher L. et al.	
	85	7548851		2009-06-16	LAU; Jack et al.	

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	86	7558224		2009-07-07	SURAZSKI; Luke K. et al.	
	87	7558635		2009-07-07	THIEL; Steffen et al.	
	88	7571014		2009-08-04	LAMBOURNE; Robert A [Us] et al.	
	89	7574274		2009-08-11	HOLMES; Stephen G.	
	90	7599685		2009-10-06	GOLDBERG; David et al.	
	91	7606174		2009-10-20	OCHI; Mitsunori et al.	
	92	7607091		2009-10-20	SONG; Young-Wun et al.	
	93	7627825		2009-12-01	KAKUDA; Hiroshi	
	94	7630501		2009-12-08	BLANK; William Tom [Us] et al.	
	95	7631119		2009-12-08	MOORE; Jeffrey C. et al.	
	96	7643894		2010-01-05	BRAITHWAITE; Michael et al.	

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	97	7653344		2010-01-26	FELDMAN; Theodore Philip et al.	
	98	7657224		2010-02-02	GOLDBERG; David et al.	
	99	7657644		2010-02-02	ZHENG; Qinghua	
	100	7657910		2010-02-02	MCAULAY; Roger [Us] et al.	
	101	7665115		2010-02-16	GALLO; Kevin T. et al.	
	102	7668990		2010-02-23	KRZYZANOWSKI; Paul et al.	
	103	7669113		2010-02-23	MOORE; Jeff et al.	
	104	7669219		2010-02-23	SCOTT; Samuel T.III.	
	105	7672470		2010-03-02	LEE; Jae-Hoon	
	106	7675943		2010-03-09	MOSIG; Rudiger et al.	
	107	7676044		2010-03-09	SASAKI; Toru [Jp] et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	108	7676142		2010-03-09	HUNG; Andy Chao	
	109	7688306		2010-03-30	WEHRENBERG; Paul J. et al.	
	110	7689304		2010-03-30	SASAKI; Yoshio	
	111	7689305		2010-03-30	KREIFELDT; Richard A. et al.	
	112	7702279		2010-04-20	KO; Steve et al.	
	113	7702403		2010-04-20	GLADWIN; Stephen Christopher et al.	
	114	7710941		2010-05-04	RIETSCHEL; Johannes et al.	
	115	7711774		2010-05-04	ROTHSCHILD; Leigh M.	
	116	7720096		2010-05-18	KLEMETS; Anders E.	
	117	7721032		2010-05-18	BUSHELL; John Samuel et al.	
	118	7742740		2010-06-22	GOLDBERG; David et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	119	7743009		2010-06-22	HANGARTNER; Rick et al.	
	120	7746906		2010-06-29	JINZAKI; Akira et al.	
	121	7756743		2010-07-13	LAPCEVIC; Thomas G.	
	122	7761176		2010-07-20	BEN-YAACOV YAACOV . et al.	
	123	7765315		2010-07-27	BATSON; James D. et al.	
	124	7793206		2010-09-07	LIM; Seh E. et al.	
	125	7827259		2010-11-02	HELLER; David et al.	
	126	7831054		2010-11-09	BALL; Steven J. et al.	
	127	7835689		2010-11-16	GOLDBERG; David et al.	
	128	7853341		2010-12-14	MCCARTY; William A. et al.	
	129	7865137		2011-01-04	GOLDBERG; David et al.	

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	130	7882234		2011-02-01	WATANABE; Mitsuhiro et al.	
	131	7885622		2011-02-08	KRAMPF; Steven S. et al.	
	132	7907819		2011-03-15	ANDO; Hideo et al.	
	133	7916877		2011-03-29	GOLDBERG; David et al.	
	134	7917082		2011-03-29	GOLDBERG; David et al.	
	135	7933418		2011-04-26	MORISHIMA; Morito	
	136	7934239		2011-04-26	DAGMAN; Vadim	
	137	7945143		2011-05-17	YAHATA; Hiroshi et al.	
	138	7945636		2011-05-17	NELSON; Hortense Kathleen et al.	
	139	7945708		2011-05-17	OHKITA; Hideki	
	140	7958441		2011-06-07	HELLER; David [Us] et al.	

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	141	7966388		2011-06-21	PUGACZEWSKI; John T. et al.	
	142	7987294		2011-07-26	BRYCE; Stuart [Au] et al.	
	143	7995732		2011-08-09	KOCH; Robert et al.	
	144	7996566		2011-08-09	SYLVAIN; Dany et al.	
	145	7996588		2011-08-09	SUBBIAH; Baranitharan et al.	
	146	8014423		2011-09-06	THALER; Thomas et al.	
	147	8015306		2011-09-06	BOWMAN; Timothy D.	
	148	8020023		2011-09-13	MILLINGTON; Nicholas A.J. et al.	
	149	8023663		2011-09-20	GOLDBERG; David	
	150	8028038		2011-09-27	WEEL; Martin	
	151	8028323		2011-09-27	WEEL; Martin	

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	152	8041062		2011-10-18	COHEN; Ephram et al.	
	153	8045721		2011-10-25	BURGAN; John M. et al.	
	154	8045952		2011-10-25	QURESHEY; Safi et al.	
	155	8050203		2011-11-01	JACOBSEN; Phillip et al.	
	156	8050652		2011-11-01	QURESHEY; Safi et al.	
	157	8055364		2011-11-08	CHAMPION; Mark	
	158	8074253		2011-12-06	NATHAN; Guy	
	159	8086752		2011-12-27	MILLINGTON; Nicholas A.J. et al.	
	160	8090317		2012-01-03	BURGE; Benjamin D. et al.	
	161	8103009		2012-01-24	MCCARTY; William A. et al.	
	162	8111132		2012-02-07	ALLEN; William A. et al.	

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	163	8112032		2012-02-07	KO; Steve et al.	
	164	8116476		2012-02-14	INOHARA; Yuichi	
	165	8126172		2012-02-28	HORBACH; Ulrich et al.	
	166	8131389		2012-03-06	HARDWICK; John C. et al.	
	167	8131390		2012-03-06	BRAITHWAITE; Michael et al.	
	168	8144883		2012-03-27	PDERSEN; Jan A. et al.	
	169	8148622		2012-04-03	ROTHKOPF; Fletcher R. et al.	
	170	8150079		2012-04-03	MAEDA; Kazuhiro et al.	
	171	8169938		2012-05-01	DUCHSCHER; Rob et al.	
	172	8170222		2012-05-01	DUNKO; Gregory A.	
	173	8170260		2012-05-01	REINING; Friedrich et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	174	8175297		2012-05-08	HO; Harvey et al.	
	175	8185674		2012-05-22	MOORE; Jeffrey C. et al.	
	176	8194874		2012-06-05	STAROBIN; Bradley M. et al.	
	177	8204890		2012-06-19	GOGAN; Brian [Us] et al.	
	178	8208653		2012-06-26	EO; Kil-Su et al.	
	179	8214447		2012-07-03	DESLIPPE; Mark H. et al.	
	180	8214740		2012-07-03	JOHNSON; Timothy	
	181	8214873		2012-07-03	WEEL; Martin	
	182	8218790		2012-07-10	BULL; William et al.	
	183	8230099		2012-07-24	WEEL; Martin	
	184	8233029		2012-07-31	YOSHIDA; Junji et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	185	8233648		2012-07-31	SOREK; Noam et al.	
	186	8234395		2012-07-31	MILLINGTON; Nicholas A J [Us] et al.	
	187	8239748		2012-08-07	MOORE; Jeff et al.	
	188	8279709		2012-10-02	CHOISEL; Sylvain et al.	
	189	8281001		2012-10-02	BUSAM; Vincent R. et al.	
	190	8285404		2012-10-09	KEKKI; Samuli T.	
	191	8290603		2012-10-16	LAMBOURNE; Robert A [Us] et al.	
	192	8300845		2012-10-30	ZUREK; Robert et al.	
	193	8311226		2012-11-13	LORGEOUX; Mickael et al.	
	194	8315555		2012-11-20	KO; Steve et al.	
	195	8316147		2012-11-20	BATSON; James D. et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	196	8325931		2012-12-04	HOWARD; Damian et al.	
	197	8326951		2012-12-04	MILLINGTON; Nicholas A J [Us] et al.	
	198	8340330		2012-12-25	YOON; Eung-Sik et al.	
	199	8345709		2013-01-01	NITZPON; Hans-Juergen et al.	
	200	8364295		2013-01-29	BECKMANN; Paul E. et al.	
	201	8370678		2013-02-05	MILLINGTON; Nicholas A. J. et al.	
	202	8374595		2013-02-12	CHIEN; Chih-Ling et al.	
	203	8407623		2013-03-26	KERR; Duncan et al.	
	204	8411883		2013-04-02	MATSUMOTO; Keishi	
	205	8423659		2013-04-16	MILLINGTON; Nicholas A. J.	
	206	8423893		2013-04-16	RAMSAY; Max Gordon et al.	

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	207	8432851		2013-04-30	XU; Guijin et al.	
	208	8433076		2013-04-30	ZUREK; Robert et al.	
	209	8442239		2013-05-14	BRUELLE-DREWS CHRISTIAN . et al.	
	210	8457334		2013-06-04	YOON; Eung-Sik et al.	
	211	8463184		2013-06-11	DUA; Robin	
	212	8463875		2013-06-11	KATZ; Hagay et al.	
	213	8473844		2013-06-25	KREIFELDT; Richard A. et al.	
	214	8477958		2013-07-02	MOELLER; Klaus R. et al.	
	215	8483853		2013-07-09	LAMBOURNE; Robert A [Us] et al.	
	216	8509211		2013-08-13	TROTTER; John et al.	
	217	8520870		2013-08-27	SATO; Katsuyuki et al.	

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	218	8565455		2013-10-22	WORRELL; Devon et al.	
	219	8577048		2013-11-05	CHAIKIN; Peter et al.	
	220	8588949		2013-11-19	LAMBOURNE; Robert A. et al.	
	221	8600084		2013-12-03	GARRETT; James E.	
	222	8611559		2013-12-17	SANDERS; Christopher	
	223	8615091		2013-12-24	TERWAL; Remco	
	224	8639830		2014-01-28	BOWMAN; Timothy D.	
	225	8654995		2014-02-18	SILBER; Michael W. et al.	
	226	8672744		2014-03-18	GRONKOWSKI; Timothy T. et al.	
	227	8683009		2014-03-25	NG; Stanley et al.	
	228	8731206		2014-05-20	PARK; Keun Young	

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	229	8750282		2014-06-10	GELTER; Aaron et al.	
	230	8751026		2014-06-10	SATO; Teppei et al.	
	231	8762565		2014-06-24	TOGASHI; Ryuichiro et al.	
	232	8775546		2014-07-08	MILLINGTON; Nicholas A. J.	
	233	8818538		2014-08-26	SAKATA; Junichiro	
	234	8819554		2014-08-26	BASSO; Andrea et al.	
	235	8831761		2014-09-09	KEMP; Thomas et al.	
	236	8843586		2014-09-23	PANTOS; Roger et al.	
	237	8861739		2014-10-14	OJANPERA; Juha P.	
	238	8868698		2014-10-21	MILLINGTON; Nicholas A. J. et al.	
	239	8885851		2014-11-11	WESTENBROEK; Marcel	

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	240	8904066		2014-12-02	MOORE; Jeffrey C. et al.	
	241	8917877		2014-12-23	HAAFF; Olle et al.	
	242	8930006		2015-01-06	HAATAINEN; Niko	
	243	8934647		2015-01-13	JOYCE; John et al.	
	244	8934655		2015-01-13	BREEN; John J. et al.	
	245	8942252		2015-01-27	BALASSANIAN; Edward et al.	
	246	8942395		2015-01-27	LISSAMAN; Geoff et al.	
	247	8954177		2015-02-10	SANDERS; Christopher John	
	248	8965544		2015-02-24	RAMSAY; Max Gordon	
	249	8966394		2015-02-24	GATES; Patrick et al.	
	250	9042556		2015-05-26	KALLAI; Christopher [Us] et al.	

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	251	9130770		2015-09-08	MILLINGTON; Nicholas A.J. et al.	
	252	9137602		2015-09-15	MAYMAN; Avrum G. et al.	
	253	9160965		2015-10-13	REDMANN; William Gibbens et al.	
	254	9195258		2015-11-24	MILLINGTON; Nicholas A.J.	
	255	9456243		2016-09-27	HUGHES; Gary et al.	
	256	9507780		2016-11-29	ROTHKOPF; Fletcher R [Us] et al.	

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	1	20010001160		2001-05-10	SHOFF; Daniel J. et al.	
	2	20010009604		2001-07-26	ANDO; Hideo et al.	
	3	20010022823		2001-09-20	RENAUD; Pierre	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	4	20010027498		2001-10-04	VAN DE MEULENHOF; Dennis et al.	
	5	20010032188		2001-10-18	MIYABE; Yoshiyuki et al.	
	6	20010042107		2001-11-15	PALM; Stephen R.	
	7	20010043456		2001-11-22	ATKINSON; Lee	
	8	20010046235		2001-11-29	TREVITT; Stephen et al.	
	9	20010047377		2001-11-29	SINCAGLIA; Nicholas William et al.	
	10	20010050991		2001-12-13	EVES; David A.	
	11	20020002039		2002-01-03	QURESHEY; Safi et al.	
	12	20020002562		2002-01-03	MORAN; Thomas P. et al.	
	13	20020002565		2002-01-03	OHYAMA; Akira	
	14	20020003548		2002-01-10	KRUSCHE; Arnd et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	15	20020015003		2002-02-07	KATO; Masami et al.	
	16	20020022453		2002-02-21	BALOG; Horia et al.	
	17	20020026442		2002-02-28	LIPSCOMB; Kenneth O. et al.	
	18	20020034374		2002-03-21	BARTON; James M.	
	19	20020035621		2002-03-21	ZINTEL; William Michael et al.	
	20	20020042844		2002-04-11	CHIAZZESE; Giovanni	
	21	20020049843		2002-04-25	BARONE; Samuel T. et al.	
	22	20020062406		2002-05-23	CHANG; William Ho et al.	
	23	20020065926		2002-05-30	HACKNEY; Michael L.J. et al.	
	24	20020067909		2002-06-06	IIVONEN; Jukka-Pekka	
	25	20020072816		2002-06-13	SHDEMA; Yoav [Il] et al.	

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	26	20020072817		2002-06-13	CHAMPION; Mark	
	27	20020073228		2002-06-13	COGNET; Yves et al.	
	28	20020078293		2002-06-20	KOU; Sho et al.	
	29	20020080783		2002-06-27	FUJIMORI; Junichi [Jp] et al.	
	30	20020090914		2002-07-11	KANG; Hyun-Sook et al.	
	31	20020093478		2002-07-18	YEH; Chun Lin	
	32	20020095460		2002-07-18	BENSON; Michael	
	33	20020098878		2002-07-25	MOONEY; Philip D. et al.	
	34	20020101357		2002-08-01	GHARAPETIAN; Ara H.	
	35	20020103635		2002-08-01	MESAROVIC; Vladimir Z. et al.	
	36	20020109710		2002-08-15	HOLTZ; Alex et al.	

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	37	20020112244		2002-08-15	LIOU; Shih-Ping et al.	
	38	20020114354		2002-08-22	SINHA; Pranesh et al.	
	39	20020114359		2002-08-22	IBARAKI; Susumu et al.	
	40	20020124097		2002-09-05	ISELY; Larson J [Us] et al.	
	41	20020124182		2002-09-05	BACSO; Stephen R. et al.	
	42	20020129156		2002-09-12	YOSHIKAWA; Masato	
	43	20020131398		2002-09-19	TAYLOR; James L.	
	44	20020131761		2002-09-19	KAWASAKI; Kojiro et al.	

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	1	199961985	WO		1999-12-02	THE DOW CHEMICAL COMPANY.		

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	Art Unit	2447
	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

	2	200153994	WO		2001-07-26	FRISKIT, INC.		
	3	2003093950	WO	A2	2003-11-13	GOLDBERG, BENJAMIN, M. et al.		
	4	2005013047	WO	A2	2005-02-10	SONOS INC [US], et al.		
	5	2007023120	WO	A1	2007-03-01	SONY ERICSSON MOBILE COMM AB [SE], et al.		
	6	2007127485	WO		2007-11-08	MICROSOFT CORPORATION.		
	7	2007131555	WO		2007-11-22	SONY ERICSOON MOBILE COMMUNICATIONS AB.		
	8	2007135581	WO	A2	2007-11-29	KONINKL PHILIPS ELECTRONICS NV [NL], et al.		
	9	2008082350	WO	A1	2008-07-10	SCANIA CV ABP [SE], et al.		
	10	2008114389	WO	A1	2008-09-25	PIONEER CORPORATION.		
	11	2012050927	WO		2012-04-19	BEYOND OBLIVION INC.		
	12	2014004182	WO		2014-01-03	SONOS, INC.		

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	13	2014149533	WO	A2	2014-09-25	BOSE CORPORATION.		

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	1	Bluetooth. "Specification of the Bluetooth System: Wireless connections made easy," Core, Version 1.0 B, 1 December 1999, 1076 pages.	
	2	Bogen Communications, Inc., ProMatrix Digitally Matrixed Amplifier Model PM3180, Copyright1996, 2 pages.	
	3	BRASSIL et al., "Enhancing Internet Streaming Media with Cueing Protocols," 2000, 9 pages.	
	4	BREEBAART et al., "Multi-Channel Goes Mobile: MPEG Surround Binaural Rendering," AES 29th International Conference, September 2-4, 2006, pp. 1-13.	
	5	BRETL W.E., et al., MPEG2 Tutorial [online], 2000 [retrieved on 2009-01-13] Retrieved from the Internet:(http://www.bretl.com/mpeghtml/MPEGindex.htm), pp. 1-23.	
	6	CANADIAN INTELLECTUAL PROPERTY OFFICE, Canadian Office Action mailed on 04 April 2016, issued in connection with Canadian Patent Application No. 2,842,342, 5 pages.	
	7	CANADIAN INTELLECTUAL PROPERTY OFFICE, Canadian Office Action mailed on 14 September 2015, issued in connection with Canadian Patent Application No. 2,842,342, 2 pages.	
	8	CEN et al., "A Distributed Real-Time MPEG Video Audio Player," Department of Computer Science and Engineering, Oregon Graduate Institute of Science and Technology, 1995, 12 pages.	

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	9	CHAKRABARTI et al., "A Remotely Controlled Bluetooth Enabled Environment," IEEE, 2004, pp. 77-81.	
	10	Change Notification: Agere Systems WaveLan Multimode Reference Design (D2 to D3), AVAGO0042, Agere Systems, November 2004, 2 pages.	
	11	CHINESE OFFICE ACTION, Office Action mailed on 20 December 2016, issued in connection with Chinese Application No. 201380044446.8, 16 pages.	
	12	CHINESE PATENT OFFICE, Office Action mailed on 05 July 2016, issued in connection with Chinese Patent Application No. 201380044380.2, 25 pages.	
	13	CHINESE PATENT OFFICE, Second Office Action mailed on 27 February 2017, issued in connection with Chinese Patent Application No. 201380044380.2, 22 pages.	
	14	Connection Manager: 1 Service Template Version 1.01 For UPnP, Version 1.0 (June 25, 2002) (25 pages).	
	15	ContentDirectory:1 Service Template Version 1.01 For UPnP, Version 1.0 (June 25, 2002) (89 pages).	
	16	Corrected Notice of Allowability mailed on 23 December 2016, issued in connection with U.S. Patent Application No. 14/803953 filed on 20 July 2015, 18 pages.	
	17	Corrected Notice of Allowance mailed on 19 August 2015, issued in connection with U.S. Patent Application No. 13/907666, filed on 31 May 2013, 2 pages.	
	18	Creative, "Connecting Bluetooth Devices with Creative D200," http://support.creative.com/kb/ShowArticle.aspx?url=http://ask.creative.com:80/SRVS/CGI-BIN/WEBCGI.EXE/,/?St=106,E=0000000000396859016,K=9377,Sxi=8,VARSET=ws:http://us.creative.com,case=63350>, available on 11/28/2011, 2 pages.	
	19	Crown PIP Manual available for sale at least 2004, 68 pages.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	20	DANNENBERG et al., "A. System Supporting Flexible Distributed Real-Time Music Processing," Proceedings of the 2001 International Computer Music Conference, 2001, 4 pages.	
	21	DANNENBERG, Roger B., "Remote Access to Interactive Media," Proceedings of the SPIE 1785, 1993, pp. 230-237.	
	22	DAY, Rebecca, "Going Elan!" Primedia Inc., 2003, 4 pages.	
	23	Deep-Sleep Implementation in WL60011 for IEEE 802.11b Applications, AVAGO0020, Agere Systems, July 2004, 22 pages.	
	24	Dell, Inc. "Dell Digital Audio Receiver: Reference Guide," June 2000, 70 pages.	
	25	Dell, Inc. "Start Here," June 2000, 2 pages.	
	26	"Denon 2003-2004 Product Catalog," Denon, 2003-2004, 44 pages.	
	27	Denon AV Surround Receiver AVR-1604/684 User's Manual, 2004, 128 pages.	
	28	Denon AV Surround Receiver AVR-5800 Operating Instructions, Copyright 2000, 67 pages.	
	29	Designing a UPnP AV MediaServer, Nelson Kidd (2003) (SONDM000115062-116) (55 pages).	
	30	DHIR, Amit, "Wireless Home Networks - DECT, Bluetooth, Home RF, and Wirelss LANs," XILINX, wp135 (v1.0), March 21, 2001, 18 pages.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	31	"DP-0206 Digital Signal Processor," TOA Electronics, Inc., 2001, pp. 1-12.	
	32	EUROPEAN PATENT OFFICE, European Extended Search Report mailed 07 March 2016, issued in connection with EP Application No. 13810340.3, 9 pages.	
	33	EUROPEAN PATENT OFFICE, European Extended Search Report mailed on 28 February 2014, issued in connection with EP Application No. 13184747.7, 8 pages.	
	34	EUROPEAN PATENT OFFICE, European Extended Search Report mailed on 31 March 2015, issued in connection with EP Application No. 14181454.1, 9 pages.	
	35	EUROPEAN PATENT OFFICE, Examination Report mailed on 22 March 2016, issued in connection with European Patent Application No. EP14181454.1, 6 pages.	
	36	EUROPEAN PATENT OFFICE, Examination Report mailed on 24 October 2016, issued in connection with European Patent Application No. 13808623.6, 4 pages.	
	37	EUROPEAN PATENT OFFICE, Office Action mailed 25 November 2016, issued in connection with EP Application No. 13810340.3, 5 pages.	
	38	FALCONE, John, "Sonos BU150 Digital Music System review," CNET, CNET [online] 2009.07.27 [retrieved on 2016.03.16], 11 pages Retrieved from the Internet: URL:http://www.cnet.com/products/sonos-bu150-digital-music-system/.	
	39	FALLER, Christof, "Coding of Spatial Audio Compatible with Different Playback Formats," Audio Engineering Society Convention Paper (Presented at the 117th Convention), October 28-31, 2004, 12 pages.	
	40	File History of Re-Examination Application No. 90/013,423 (Sonos Ref. No. 12-0902-REX) retrieved from the U.S. Patent Office (PAIR) on December 5, 2016, 313 pages.	

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	Attorney Docket Number	05-0601-CON0319A

	1	PARK et al., "Group Synchronization in MultiCast Media Communications," Proceedings of the 5th Research on Multicast Technology Workshop, 2003, 5 pages.	
	2	PASCOE, Bob, "Salutation Architectures and the newly defined service discovery protocols from Microsoft® and Sun®," Salutation Consortium, White Paper, June 6, 1999, 5 pages.	
	3	PILLAI et al., "A Method to Improve the Robustness of MPEG Video Applications over Wireless Networks," Kent Ridge Digital Labs, 2000, 15 pages.	
	4	Polycom Conference Composer User Guide, copyright 2001, 29 pages.	
	5	Pre-Brief Conference Decision mailed on 11 May 2017, issued in connection with U.S. Patent Application No. 14/504812, filed on 2 October 2014, 2 pages.	
	6	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.	
	7	Presentations at WinHEC 2000, May 2000, 138 pages.	
	8	PRISMIQ, Inc., "PRISMIQ Media Player User Guide," 2003, 44 pages.	
	9	Proficient Audio Systems M6 Quick Start Guide, 2011, 5 pages.	
	10	Proficient Audio Systems: Proficient Editor Advanced Programming Guide, 2007, 40 pages.	
	11	Programming Interface for WL54040 Dual-Band Wireless Transceiver, AVAGO0066, Agere Systems, May 2004, 16 pages.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	Attorney Docket Number	05-0601-CON0319A

	12	Radio Shack, "Auto-Sensing 4-Way Audio/Video Selector Switch," 2004, 1 page.	
	13	RadioShack, Pro-2053 Scanner, 2002 Catalog, part 1, 100 pages.	
	14	RadioShack, Pro-2053 Scanner, 2002 Catalog, part 2, 100 pages.	
	15	RadioShack, Pro-2053 Scanner, 2002 Catalog, part 3, 100 pages.	
	16	RadioShack, Pro-2053 Scanner, 2002 Catalog, part 4, 100 pages.	
	17	RadioShack, Pro-2053 Scanner, 2002 Catalog, part 5, 46 pages.	
	18	RANGAN et al., "Feedback Techniques for Continuity and Synchronization in Multimedia Information Retrieval," ACM Transactions on Information Systems, 1995, pp. 145-176, Vol. 13, No. 2.	
	19	Real Time Control Protocol (RTCP) and Realtime Transfer Protocol (RTP), RFC 1889 (Jan. 1996) (D+M_0397810-84) (75 pages).	
	20	Realtime Streaming Protocol (RTSP), RFC 2326 (Apr. 1998) (D+M_0397945-8036) (92 pages).	
	21	Realtime Transport Protocol (RTP), RFC 3550 (July 2003) (D+M_0398235-323) (89 pages).	
	22	Re-Exam Final Office Action mailed on 5 August 2015, issued in connection with U.S. Patent Application No. 90/013423, filed on 5 January 2015, 25 pages.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	23	Reexam Non-Final Office Action mailed on 09 November 2016, issued in connection with U.S. Patent Application No. 90/013774, filed on 29 June 2016, 35 pages.	
	24	Re-Exam Non-Final Office Action mailed on 22 April 2015, issued in connection with U.S. Patent Application No. 90/013423, filed on 05 January 2015, 16 pages.	
	25	REID, Mark, "Multimedia conferencing over ISDN and IP networks using ITU-T H-series recommendations: architecture, control and coordination," Computer Networks, 1999, pp. 225-235, Vol. 31.	
	26	RenderingControl:1 Service Template Version 1.01 For UPnP, Version 1.0, (June 25, 2002) (SONDM000115187-249) (63 pages).	
	27	Renewed Request for Ex Parte Re-Examination, U.S. Application No. 90/013959 filed 16 June 2017, 126 pages.	
	28	Renkus Heinz Manual; available for sale at least 2004, 6 pages.	
	29	Request for Ex Parte Reexamination submitted in U.S. Patent 9213357 on May 22, 2017, 85 pages.	
	30	"Residential Distributed Audio Wiring Practices," Leviton Network Solutions, 2001, 13 pages.	
	31	RITCHIE et al., "MediaServer:1 Device Template Version 1.01," Contributing Members of the UPnP Forum, June 25, 2002, 12 pages.	
	32	RITCHIE et al., "UPnP AV Architecture:1, Version 1.0," Contributing Members of the UPnP Forum, June 25, 2002, 22 pages.	
	33	RITCHIE, John, "MediaRenderer:1 Device Template Version 1.01," Contributing Members of the UPnP Forum, June 25, 2002, 12 pages.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	Attorney Docket Number	05-0601-CON0319A

	34	ROLAND CORPORATION, "Roland announces BA-55 Portable PA System," press release, April 6, 2011, 2 pages.
	35	ROTHERMEL et al., "An Adaptive Protocol for Synchronizing Media Streams," Institute of Parallel and Distributed High-Performance Systems (IPVR), 1997, 26 pages.
	36	ROTHERMEL et al., "An Adaptive Stream Synchronization Protocol," 5th International Workshop on Network and Operating System Support for Digital Audio and Video, 1995, 13 pages.
	37	ROTHERMEL et al., "An Adaptive Stream Synchronization Protocol," 5th International Workshop on Network and Operating System Support for Digital Audio and Video, April 18-21, 1995, 12 pages.
	38	ROTHERMEL et al., "Clock Hierarchies- An Abstraction for Grouping and Controlling Media Streams," University of Stuttgart Institute of Parallel and Distributed High-Performance Systems, January 1996, 23 pages.
	39	ROTHERMEL et al., "Synchronization in Joint-Viewing Environments," University of Stuttgart Institute of Parallel and Distributed High-Performance Systems, 1992, 13 pages.
	40	ROTHERMEL, Kurt, "State-of-the-Art and Future Research in Stream Synchronization," University of Stuttgart, 3 pages.
	41	"RVL-6 Modular Multi-Room Controller, Installation & Operation Guide," Nile Audio Corporations, 1999, 46 pages.
	42	SCHMANDT et al., "Impromptu: Managing Networked Audio Applications for Mobile Users," 2004, 11 pages.
	43	SCHULZRINNE et al., "RTP: A Transport Protocol for Real-Time Applications," Network Working Group, January 1996, pp. 1-75.
	44	SCHULZRINNE H., et al., "RTP: A Transport Protocol for Real-Time Applications, RFC 3550," Network Working Group, 2003, pp. 1-89.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

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	45	Simple Network Time Protocol (SNTPI), RFC 1361 (August 1992) (D+M_0397537-46) (10 pages).	
	46	Simple Network Time Protocol (SNTPII), RFC 1769 (March 1995) (D+M_0397663-76) (14 pages).	
	47	Simple Service Discovery Protocol/1.0 Operating without an Arbiter (Oct. 28, 1999) (24 pages).	
	48	Sonos, Inc. v D&M Holdings, D&M Supp Opposition Brief including Exhibits, 17 March 2017, 23 pages.	
	49	Sonos, Inc. v. D&M Holdings, Expert Report of Jay P. Kesan including Appendices A-P, Feb. 20, 2017, 776 pages.	
	50	Sonos, Inc. v. D&M Holdings Inc. et al., Complaint for Patent Infringement, filed October 21, 2014, 20 pages.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

CERTIFICATION STATEMENT

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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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-02
Name/Print	Michael E. Coyne	Registration Number	58443

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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.

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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)).

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(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, Joon H.
Attorney Docket Number	05-0601-CON0319A

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	1	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 9: Defendants' Invalidity Contentions for U.S. Patent No. 9,202,509 filed April 15, 2016, 163 pages.	
	2	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Preliminary Identification of Prior Art References, provided July 29, 2016, 5 pages.	
	3	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.	
	4	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.	
	5	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.	
	6	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.	
	7	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.	
	8	Sonos, Inc. v. D&M Holdings Inc. et al., Order, provided October 7, 2016, 2 pages.	
	9	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.	
	10	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.	
	11	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 206-1, Transcript of 101 Hearing (Nov. 28, 2016) (28 pages).	

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	12	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 207, PUBLIC Joint Claim Construction Brief (Nov. 30, 2016) (88 pages).	
	13	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 214, D&M Post-Markman Letter (Dec. 22, 2016) (13 pages).	
	14	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 215, Sonos Post-Markman Letter (Dec. 22, 2016) (15 pages).	
	15	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 219, Claim Construction Opinion (Jan. 12, 2017) (24 pages).	
	16	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 221, Claim Construction Order (Jan. 18 2017) (2 pages).	
	17	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), Markman Hearing Transcript (Dec. 14, 2016) (69 pages).	
	18	Sonos System Overview, Version 1.0, July 2011, 12 pages.	
	19	Sony: AIR-SA 50R Wireless Speaker, Copyright 2009, 2 pages.	
	20	Sony: Altus Quick Setup Guide ALT-SA32PC, Copyright 2009, 2 pages.	
	21	Sony: BD/DVD Home Theatre System Operating Instructions for BDV-E300, E301 and E801, Copyright 2009, 115 pages.	
	22	Sony: BD/DVD Home Theatre System Operating Instructions for BDV-IT1000/BDV-IS1000, Copyright 2008, 159 pages.	

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	23	Sony: Blu-ray Disc/DVD Home Theatre System Operating Instructions for BDV-IZ1000W, Copyright 2010, 88 pages.	
	24	Sony: DVD Home Theatre System Operating Instructions for DAV-DZ380W/DZ680W/DZ880W, Copyright 2009, 136 pages.	
	25	Sony: DVD Home Theatre System Operating Instructions for DAV-DZ870W, Copyright 2008, 128 pages.	
	26	Sony Ericsson MS500 User Guide, Copyright 2009, 2 pages.	
	27	Sony: Home Theatre System Operating Instructions for HT-IS100, Copyright 2008, 168 pages.	
	28	Sony: HT-IS100, 5.1 Channel Audio System, last updated November 2009, 2 pages.	
	29	Sony: Multi Channel AV Receiver Operating Instructions, 2007, 80 pages.	
	30	Sony: Multi Channel AV Receiver Operating Instructions for STR-DN1000, Copyright 2009, 136 pages.	
	31	Sony: STR-DN1000, Audio Video Receiver, last updated August 2009, 2 pages.	
	32	Sony: Wireless Surround Kit Operating Instructions for WHAT-SA2, Copyright 2010, 56 pages.	
	33	TAYLOR, Marilou, "Long Island Sound," Audio Video Interiors, April 2000, 8 pages.	

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	34	TOA Corporation, Digital Processor DP-0206 DACsys2000 Version 2.00 Software Instruction Manual, Copyright 2001, 67 pages.	
	35	Understanding Universal Plug and Play, Microsoft White Paper (June 2000) (D+M_0402074-118) (45 pages).	
	36	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.	
	37	UNITED STATES PATENT AND TRADEMARK OFFICE, U.S. Provisional Application No. 60/825,407 filed on 12 September 2006, entitled "Controlling and manipulating groupings in a multi-zone music or media system," 82 pages.	
	38	Universal Plug and Play Device Architecture V. 1.0, (June 8, 2000) (54 pages).	
	39	Universal Plug and Play in Windows XP, Tom Fout. Microsoft Corporation (July 2001) (D+M_0402041-73) (33 pages).	
	40	Universal Plug and Play ("UPnP") AV Architecture:1 For UPnP, Version 1.0, (June 25, 2002) (D+M_0298151-72) (22 pages).	
	41	Universal Plug and Play Vendor's Implementation Guide (January 5, 2000) (7 pages).	
	42	'UPnP and Sonos Questions," Sonos Community, December 2006, 5 pages.	
	43	UPnP AV Architecture:0.83 (June 12, 2002) (SONDM000115483-504) (22 pages).	
	44	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	UPnP; "Universal Plug and Play Device Architecture," 08 June 2000; version 1.0; Microsoft Corporation; pp 1-54.	
	46	WANCommonInterfaceConfig:1 Service Template Version 1.01 For UPnP, Ver. 1.0 (November 12, 2001) (D +M_0401820-43) (24 pages).	
	47	WaveLan High-Speed Multimode Chip Set, AVAGO0003, Agere Systems, February 2003, 4 pages.	
	48	WaveLan High-Speed Multimode Chip Set, AVAGO0005, Agere Systems, February 2003, 4 pages.	

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Electronic Acknowledgement Receipt	
EFS ID:	35585978
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:32:06
Application Type:	Utility under 35 USC 111(a)

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60	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_10_IDS_20190329095315.pdf	1055453 9ae19b7a5b0a9819c92e7b39611f675b00d9e64c	no	8
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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

	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 27 March 2014, issued in connection with U.S. Patent Application No. 13/533105, filed on 26 June 2012, 29 pages.	
	7	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.	
	8	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.	
	9	Final Office Action mailed on 02 June 2017, issued in connection with U.S. Patent Application No. 13/848932, filed on 22 March 2013, 32 pages.	
	10	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.	

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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

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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	/Michael E.Coyne/	Date (YYYY-MM-DD)	2019-04-02
Name/Print	Michael E. Coyne	Registration Number	58443

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EFS ID:	35589239
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:38:33
Application Type:	Utility under 35 USC 111(a)

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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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6	Non Patent Literature	13533105_FOA_12-0402_3-27-14_29PAGES.PDF	947656 caef56f4dd42c85fca3a066e6efb14c8511d0d3e	no	29
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9	Non Patent Literature	13848932_FINAL_OA_13-0317_6-2-17_32PAGES.PDF	1150157 2d24b766a699b6b6db2506ac88ab65a69e63b3b7	no	32
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11	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_13_IDS_20190329095315.pdf	1053688 dbe3cc27966ea6d648012476b4cc89b035da939f	no	5
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, Joon H.
Attorney Docket Number	05-0601-CON0319A

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	1	"884+ Automatic Matrix Mixer Control System," Ivie Technologies, Inc., 2000, pp. 1-4.
	2	Advanced Driver Tab User Interface WaveLan GUI Guide, AVAGO0009, Agere Systems, February 2004, 4 pages.
	3	Advisory Action mailed 02 February 2016, issued in connection with U.S. Patent Application No. 13/848921, filed on 22 March 2013, 8 pages.
	4	Advisory Action mailed 18 September 2008, issued in connection with U.S. Patent Application No. 10/816217, filed on 01 April 2004, 8 pages.
	5	Advisory Action mailed on 01 February 2016, issued in connection with U.S. Patent Application No. 13/864247, filed on 17 April 2013, 6 pages.
	6	Advisory Action mailed on 01 June 2015, issued in connection with U.S. Patent Application No. 14/516867, filed on 17 October 2014, 11 pages.
	7	Advisory Action mailed on 01 November 2013, issued in connection with U.S. Patent Application No. 13/618829, filed on 14 September 2012, 3 pages.
	8	Advisory Action mailed on 02 March 2015, issued in connection with U.S. Patent Application No. 13/848932, filed on 22 March 2013, 3 pages.
	9	Advisory Action mailed on 05 January 2012, issued in connection with U.S. Patent Application No. 12/035112, filed on 21 February 2008, 3 pages.
	10	Advisory Action mailed on 05 September 2014, issued in connection with U.S. Patent Application No. 13/907666, filed on 31 May 2013, 3 pages.
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	12	Advisory Action mailed on 08 March 2017, issued in connection with U.S. Patent Application No. 13/871795, filed on 26 April 2013, 22 pages.	
	13	Advisory Action mailed on 09 June 2016, issued in connection with U.S. Patent Application No. 13/871795, filed on 25 April 2013, 3 pages.	
	14	Advisory Action mailed on 10 August 2017, issued in connection with U.S. Patent Application No. 13/864250, filed on 17 April 2013, 3 pages.	
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	16	Advisory Action mailed on 12 November 2014, issued in connection with U.S. Patent Application No. 13/907666, filed on 31 May 2013, 6 pages.	
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	23	Advisory Action mailed on 26 February 2015, issued in connection with U.S. Patent Application No. 14/184528, filed on 19 February 2014, 3 pages.	
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	27	Advisory Action mailed on 28 July 2015, issued in connection with U.S. Patent Application No. 14/184522, filed on 19 February 2014, 7 pages.	
	28	Advisory Action mailed on 28 September 2009, issued in connection with U.S. Patent Application No. 10/816217, filed on 01 April 2004, 4 pages.	
	29	Agere Systems' Voice-over-Wireless LAN (VoWLAN) Station Quality of Service, AVAGO0015, Agere Systems, January 2005, 5 pages.	
	30	AKYILDIZ et al., "Multimedia Group Synchronization Protocols for Integrated Services Networks," IEEE Journal on Selected Areas in Communications, 1996 pp. 162-173, Vol. 14, No. 1.	
	31	Audio Authority: How to Install and Use the Model 1154 Signal Sensing Auto Selector, 2002, 4 pages.	
	32	Audio Authority: Model 1154B High Definition AV Auto Selector, 2008, 8 pages.	
	33	AudioSource: AMP 100 User Manual, 2003, 4 pages.	

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	First Named Inventor	MILLINGTON; Nicholas A.J.
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	34	AudioTron Quick Start Guide, Version 1.0, March 2001, 24 pages.	
	35	AudioTron Reference Manual, Version 3.0, May 2002, 70 pages.	
	36	AudioTron Setup Guide, Version 3.0, May 2002, 38 pages.	
	37	Automatic Profile Hunting Functional Description, AVAGO0013, Agere Systems, February 2004, 2 pages.	
	38	'A/V Surround Receiver AVR-5800," Denon Electronics, 2000, 2 pages.	
	39	'A/V System Controleer, Owner's Manual," B&K Compontents, Ltd., 1998, 52 pages.	
	40	AVTransport:1 Service Template Version 1.01 For UPnP, Version 1.0 (June 25, 2002) (66 pages).	
	41	AXIS Communication: AXIS P8221 Network I/O Audio Module, 2009, 41 pages.	
	42	BALDWIN, Roberto. "How-To: Setup iTunes DJ on Your Max and iPhone", available at http://www.maclife.com/article/howtos/howto_setup_itunes_dj_your_mac_and_iphone, archived on 3/17/ 2009, 4 pages.	
	43	BALFANZ et al., "Network-in-a-Box: How to Set Up a Secure Wireless Network in Under a Minute," 13th USENIX Security Symposium - Technical Paper, 2002, 23 pages.	
	44	BALFANZ et al., "Talking To Strangers: Authentication in Ad-Hoc Wireless Networks," Xerox Palo Alto Research Center, 2002, 13 pages.	

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	First Named Inventor	MILLINGTON; Nicholas A.J.
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	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

	45	BARHAM et al., "Wide Area Audio Synchronisation," University of Cambridge Computer Laboratory, 1995, 5 pages.	
	46	BAUDISCH et al., "Flat Volume Control: Improving Usability by Hiding the Volume Control Hierarchy in the User Interface," 2004, 8 pages.	
	47	BENSLIMANE Abderrahim, "A Multimedia Synchronization Protocol for Multicast Groups," Proceedings of the 26th Euromicro Conference, 2000, pp. 456-463, Vol. 1.	
	48	BIERSACK et al., "Intra- and Inter-Stream Synchronization for Stored Multimedia Streams," IEEE International Conference on Multimedia Computing and Systems, 1996, pp. 372-381.	
	49	BLAKOWSKI G. et al., "A Media Synchronization Survey: Reference Model, Specification, and Case Studies," January 1996, pp. 5-35, Vol. 14, No. 1.	
	50	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.	

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	Filing Date	2019-03-11
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	Art Unit	2447
	Examiner Name	HWANG, Joon H.
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58443

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Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
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Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
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Application Type:	Utility under 35 USC 111(a)

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45	Non Patent Literature	BARHAM_1995.PDF	2208674 fa895d0cb313307a4264db86d14ef40d6a1e8d2a	no	5
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46	Non Patent Literature	BAUDISCH_2004.PDF	1634079 7dc98c02c560a3fe87bfb8baef36ba2a88a2a33f	no	8
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47	Non Patent Literature	BENSLIMANE_PROC26THEUROMICROCONF_2000_1_456.PDF	533608 9b35b33e251fc13b275748400f7086bdcd2d43b6	no	8
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48	Non Patent Literature	BIERSACK_IEEEINTLCONFERENCE_MULTIMEDIACOMPUTINGSYSTEMS_1996_372.PDF	57025 2464b953323718a2934be59ef3f5cea322b4858f	no	10
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49	Non Patent Literature	BLAKOWSKI_1996.PDF	2310647 226342aece1f214bdefb9b4b5dce0891c63b7159	no	32
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50	Non Patent Literature	BLUETOOTH_SPEC_JUL_1999-1OF4_REDUCED.PDF	9230492 704feaed331f111655dabf79deec3ff58eb7b8c6	no	267
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51	Non Patent Literature	BLUETOOTH_SPEC_JUL_1999-2 OF4REDUCED.PDF	8213582 fadaa488127eb675b2089d3626d4c59f5e1f 505b	no	267
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52	Non Patent Literature	BLUETOOTH_SPEC_JUL_1999-3 OF4_REDUCED.PDF	7213842 bb03829ee6722aa7a842c7875071815e067 78dab	no	267
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54	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_12_IDS_201903290 95315.pdf	1055681 7323ff3b94ef0d67d9315e272165023bd0c dbfb3	no	8
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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

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	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

	1	WaveLAN Wireless Integration Developer Kit (WI-DK) for Access Point Developers, AVAGO0054, Agere Systems, July 2003, 2 pages.	
	2	WaveLAN Wireless Integration-Developer Kit (WI-DK) Hardware Control Function (HCF), AVAGO0052, Agere Systems, July 2003, 2 pages.	
	3	"Welcome. You're watching Apple TV." Apple TV 1st Generation Setup Guide, 8 April 2008 Retrieved 10/14/14, 40 pages.	
	4	"Welcome. You're watching Apple TV." Apple TV 2nd Generation Setup Guide, 10 March 2011 Retrieved 10/16/14, 36 pages.	
	5	"Welcome. You're watching Apple TV." Apple TV 3rd Generation Setup Guide, 16 March 2012 Retrieved 10/16/14, 36 pages.	
	6	WI-DK Release 2 WaveLan Embedded Drivers for VxWorks and Linux, AVAGO0056, Agere Systems, July 2003, 2 pages.	
	7	WI-DK Release 2 WaveLan END Reference Driver for VxWorks, AVAGO0044, Agere Systems, July 2003, 4 pages.	
	8	WI-DK Release 2 WaveLan LKM Reference Drivers for Linux, AVAGO0048, Agere Systems, July 2003, 4 pages.	
	9	Windows Media Connect Device Compatibility Specification (April 12, 2004) (16 pages).	
	10	WPA Reauthentication Rates, AVAGO0063, Agere Systems, February 2004, 3 pages.	
	11	Yamaha DME 32 manual: copyright 2001.	

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	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

	12	Yamaha DME 64 Owner's Manual; copyright 2004, 80 pages.	
	13	Yamaha DME Designer 3.5 setup manual guide; copyright 2004, 16 pages.	
	14	Yamaha DME Designer 3.5 User Manual; Copyright 2004, 507 pages.	
	15	Yamaha DME Designer software manual: Copyright 2004, 482 pages.	
	16	"Symantec pcAnywhere User's Guide," v 10.5.1, 1995-2002, 154 pages.	
	17	"Systemline Modular Installation Guide, Multiroom System," Systemline, 2003, pp. 1-22.	
	18	"ZR-8630AV MultiZone Audio/Video Receiver, Installation and Operation Guide," Niles Audio Corporation, 2003, 86 pages.	
	19	ZX135: Installation Manual,LA Audio, April 2003, 44 pages.	
	20	WANPPPConnection:1 Service Template Version 1.01 For UPnP, Version 1.0 (November 12, 2001) (D+M_0401918-2006) (89 pages).	
	21	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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	Art Unit	2447
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	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

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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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E.Coyne	Registration Number	58443

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Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:34:53
Application Type:	Utility under 35 USC 111(a)

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	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	1	PARK et al., "Group Synchronization in MultiCast Media Communications," Proceedings of the 5th Research on Multicast Technology Workshop, 2003, 5 pages.	
	2	PASCOE, Bob, "Salutation Architectures and the newly defined service discovery protocols from Microsoft® and Sun®," Salutation Consortium, White Paper, June 6, 1999, 5 pages.	
	3	PILLAI et al., "A Method to Improve the Robustness of MPEG Video Applications over Wireless Networks," Kent Ridge Digital Labs, 2000, 15 pages.	
	4	Polycom Conference Composer User Guide, copyright 2001, 29 pages.	
	5	Pre-Brief Conference Decision mailed on 11 May 2017, issued in connection with U.S. Patent Application No. 14/504812, filed on 2 October 2014, 2 pages.	
	6	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.	
	7	Presentations at WinHEC 2000, May 2000, 138 pages.	
	8	PRISMIQ, Inc., "PRISMIQ Media Player User Guide," 2003, 44 pages.	
	9	Proficient Audio Systems M6 Quick Start Guide, 2011, 5 pages.	
	10	Proficient Audio Systems: Proficient Editor Advanced Programming Guide, 2007, 40 pages.	
	11	Programming Interface for WL54040 Dual-Band Wireless Transceiver, AVAGO0066, Agere Systems, May 2004, 16 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	MILLINGTON; Nicholas A.J.
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	12	Radio Shack, "Auto-Sensing 4-Way Audio/Video Selector Switch," 2004, 1 page.	
	13	RadioShack, Pro-2053 Scanner, 2002 Catalog, part 1, 100 pages.	
	14	RadioShack, Pro-2053 Scanner, 2002 Catalog, part 2, 100 pages.	
	15	RadioShack, Pro-2053 Scanner, 2002 Catalog, part 3, 100 pages.	
	16	RadioShack, Pro-2053 Scanner, 2002 Catalog, part 4, 100 pages.	
	17	RadioShack, Pro-2053 Scanner, 2002 Catalog, part 5, 46 pages.	
	18	RANGAN et al., "Feedback Techniques for Continuity and Synchronization in Multimedia Information Retrieval," ACM Transactions on Information Systems, 1995, pp. 145-176, Vol. 13, No. 2.	
	19	Real Time Control Protocol (RTCP) and Realtime Transfer Protocol (RTP), RFC 1889 (Jan. 1996) (D+M_0397810-84) (75 pages).	
	20	Realtime Streaming Protocol (RTSP), RFC 2326 (Apr. 1998) (D+M_0397945-8036) (92 pages).	
	21	Realtime Transport Protocol (RTP), RFC 3550 (July 2003) (D+M_0398235-323) (89 pages).	
	22	Re-Exam Final Office Action mailed on 5 August 2015, issued in connection with U.S. Patent Application No. 90/013423, filed on 5 January 2015, 25 pages.	

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	23	Reexam Non-Final Office Action mailed on 09 November 2016, issued in connection with U.S. Patent Application No. 90/013774, filed on 29 June 2016, 35 pages.	
	24	Re-Exam Non-Final Office Action mailed on 22 April 2015, issued in connection with U.S. Patent Application No. 90/013423, filed on 05 January 2015, 16 pages.	
	25	REID, Mark, "Multimedia conferencing over ISDN and IP networks using ITU-T H-series recommendations: architecture, control and coordination," Computer Networks, 1999, pp. 225-235, Vol. 31.	
	26	RenderingControl:1 Service Template Version 1.01 For UPnP, Version 1.0, (June 25, 2002) (SONDM000115187-249) (63 pages).	
	27	Renewed Request for Ex Parte Re-Examination, U.S. Application No. 90/013959 filed 16 June 2017, 126 pages.	
	28	Renkus Heinz Manual; available for sale at least 2004, 6 pages.	
	29	Request for Ex Parte Reexamination submitted in U.S. Patent 9213357 on May 22, 2017, 85 pages.	
	30	"Residential Distributed Audio Wiring Practices," Leviton Network Solutions, 2001, 13 pages.	
	31	RITCHIE et al., "MediaServer:1 Device Template Version 1.01," Contributing Members of the UPnP Forum, June 25, 2002, 12 pages.	
	32	RITCHIE et al., "UPnP AV Architecture:1, Version 1.0," Contributing Members of the UPnP Forum, June 25, 2002, 22 pages.	
	33	RITCHIE, John, "MediaRenderer:1 Device Template Version 1.01," Contributing Members of the UPnP Forum, June 25, 2002, 12 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Attorney Docket Number	05-0601-CON0319A

	34	ROLAND CORPORATION, "Roland announces BA-55 Portable PA System," press release, April 6, 2011, 2 pages.	
	35	ROTHERMEL et al., "An Adaptive Protocol for Synchronizing Media Streams," Institute of Parallel and Distributed High-Performance Systems (IPVR), 1997, 26 pages.	
	36	ROTHERMEL et al., "An Adaptive Stream Synchronization Protocol," 5th International Workshop on Network and Operating System Support for Digital Audio and Video, 1995, 13 pages.	
	37	ROTHERMEL et al., "An Adaptive Stream Synchronization Protocol," 5th International Workshop on Network and Operating System Support for Digital Audio and Video, April 18-21, 1995, 12 pages.	
	38	ROTHERMEL et al., "Clock Hierarchies- An Abstraction for Grouping and Controlling Media Streams," University of Stuttgart Institute of Parallel and Distributed High-Performance Systems, January 1996, 23 pages.	
	39	ROTHERMEL et al., "Synchronization in Joint-Viewing Environments," University of Stuttgart Institute of Parallel and Distributed High-Performance Systems, 1992, 13 pages.	
	40	ROTHERMEL, Kurt, "State-of-the-Art and Future Research in Stream Synchronization," University of Stuttgart, 3 pages.	
	41	'RVL-6 Modular Multi-Room Controller, Installation & Operation Guide," Nile Audio Corporations, 1999, 46 pages.	
	42	SCHMANDT et al., "Impromptu: Managing Networked Audio Applications for Mobile Users," 2004, 11 pages.	
	43	SCHULZRINNE et al., "RTP: A Transport Protocol for Real-Time Applications," Network Working Group, January 1996, pp. 1-75.	
	44	SCHULZRINNE H., et al., "RTP: A Transport Protocol for Real-Time Applications, RFC 3550," Network Working Group, 2003, pp. 1-89.	

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	45	Simple Network Time Protocol (SNTPI), RFC 1361 (August 1992) (D+M_0397537-46) (10 pages).	
	46	Simple Network Time Protocol (SNTPII), RFC 1769 (March 1995) (D+M_0397663-76) (14 pages).	
	47	Simple Service Discovery Protocol/1.0 Operating without an Arbiter (Oct. 28, 1999) (24 pages).	
	48	Sonos, Inc. v D&M Holdings, D&M Supp Opposition Brief including Exhibits, 17 March 2017, 23 pages.	
	49	Sonos, Inc. v. D&M Holdings, Expert Report of Jay P. Kesan including Appendices A-P, Feb. 20, 2017, 776 pages.	
	50	Sonos, Inc. v. D&M Holdings Inc. et al., Complaint for Patent Infringement, filed October 21, 2014, 20 pages.	

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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
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Signature	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-02
Name/Print	Michael E. Coyne	Registration Number	58443

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Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
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Attorney Docket Number:	05-0601-CON0319A
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24	Non Patent Literature	90013423_NON-FINAL_OA_4-22-15.PDF	585475 687eca797422ef5378b7be99928d400300c018a1	no	16
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27	Non Patent Literature	RENDERINGCONTROL_SONDM000115187-249_63PAGES_PART2.PDF	19704282 1718011c92bb453429a4c61221bcde32c32ba638	no	33
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28	Non Patent Literature	90013959_RENEWED_REQUEST_FOR_EX-PARTE_REEXAM_6-16-17_126PAGESPDF.PDF	12756767 3bfd840b1d821bbd920c20ca99bc2bff73ac1d91	no	126
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29	Non Patent Literature	RENKUS_HEINZ_MANUAL_2004_6_PAGES.PDF	5334400 e8c6c7ac20b1c4da24db0348b3bd52b229c54d5a	no	6
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30	Non Patent Literature	9213357-REQFORREEXAM_85PAGES_2017-05-22.PDF	5625973 8ffe6da0d85d95354d1469ed53eeecb9ea85bd04	no	85
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31	Non Patent Literature	LEVITON_RESIDENTIAL_DISTRIBUTED_2001.PDF	9322418 a111fe6e0c5f88448855ec4023a2d4e7aba6938e	no	13
Warnings:					
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32	Non Patent Literature	RITCHIE_MEDIASERVER_JUNE_25_2002.PDF	863848 6c4ccfd38987b96e71e80b0725b463a29dbef209	no	12
Warnings:					
Information:					
33	Non Patent Literature	RITCHIE_UPNP_JUNE_25_2002.PDF	1506090 45817b465159b9969586aa2d3c02f0cc7f9c1b7f	no	22
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Information:					
34	Non Patent Literature	MEDIARENDERER_1_2002_12PAGES.PDF	314359 1c7959498a37654aae2ed1b35a5e50d8542cbe9f	no	12
Warnings:					
Information:					
35	Non Patent Literature	ROLAND_ANNOUNCES_BA-55_SYSTEM_2011-2PAGES-V2.PDF	79061 ef1329059c048585845 4518ac822db84467f8de2	no	2
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38	Non Patent Literature	ROTHERMEL_ADAPTIVESTREAMSYNCPROTOCOL_1995.PDF	196987 92a695bed4cd699cedf0997a8280f81a7a367e4f	no	13
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Information:					
39	Non Patent Literature	ROTHERMEL_CLOCKHIERARCHIES_23PAGES.PDF	78220 a6e31f12d2f8cfce12cb470f2b99b662037e1e55	no	23
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40	Non Patent Literature	ROTHERMEL_1992.PDF	19798637 fee9878f60457fc7abcb04ee318b63c1c7dffb73	no	13
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41	Non Patent Literature	ROTHERMEL_STATE_OF_ART_3PAGES.PDF	1013152 3371105e4474c4bf7c7c3c42bad2ca9151510d5a	no	3
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, Joon H.
Attorney Docket Number	05-0601-CON0319A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

	1	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions, filed September 14, 2016, 100 pages.	
	2	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions, filed April 15, 2016, 97 pages.	
	3	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Preliminary Identification of Indefinite Terms, provided July 29, 2016, 8 pages.	
	4	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' 35 U.S.C. § 282 Notice filed November 2, 2017, 31 pages.	
	5	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Amended Answer, Defenses, and Counterclaims for Patent Infringement, filed November 30, 2015, 47 pages.	
	6	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Answer to Plaintiff's Second Amended Complaint, filed April 30, 2015, 19 pages.	
	7	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' First Amended Answer to Plaintiffs' Third Amended Complaint, filed September 7, 2016, 23 pages.	
	8	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.	
	9	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.	
	10	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.	
	11	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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	Attorney Docket Number	05-0601-CON0319A

	12	Sonos, Inc. v. D&M Holdings Inc. et al., First Amended Complaint for Patent Infringement, filed December 17, 2014, 26 pages.	
	13	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.	
	14	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.	
	15	Sonos, Inc. v. D&M Holdings Inc. et al., Plaintiff Sonos, Inc.'s Opening Claim Construction Brief, filed September 9, 2016, 26 pages.	
	16	Sonos, Inc. v. D&M Holdings Inc. et al., Plaintiff Sonos, Inc.'s Response in Opposition to Defendants' Partial Motion for Judgment on the Pleadings, filed May 27, 2016, 24 pages.	
	17	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.	
	18	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 September 9, 2016, 16 pages.	
	19	Sonos, Inc. v. D&M Holdings Inc. et al., Second Amended Complaint for Patent Infringement, filed February 27, 2015, 49 pages.	
	20	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.	
	21	Sonos, Inc. v. D&M Holdings Inc. et al., Sonos's Opposition to Defendants' Motion for Leave to Amend their Answer to Add the Defense of Inequitable Conduct, provided October 31, 2016, 26 pages.	
	22	Sonos, Inc. v. D&M Holdings Inc. et al., Third Amended Complaint for Patent Infringement, filed January 29, 2016, 47 pages.	

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	Attorney Docket Number	05-0601-CON0319A

	23	Sonos, Inc. v. D&M Holdings, Inc. (No. 14-1330-RGA), Defendants' Final Invalidity Contentions (Jan. 18, 2017) (106 pages).	
	24	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 226, Opinion Denying Inequitable Conduct Defenses, Feb. 6, 2017, updated, 5 pages.	
	25	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 242, US District Judge Andrews 101 Opinion, Mar. 13, 2017, 16 pages.	
	26	Sonos, Inc. v D&M Holdings, Sonos Supp Opening Markman Brief including Exhibits, 3 March 2017, 17 pages.	
	27	Sonos, Inc. v. D&M Holdings, Sonos Supp Reply Markman Brief including Exhibits, 29 March 2017, 36 pages.	
	28	Sonos, Inc. v. D&M Holdings Inc. et al., Declaration of Steven C. Visser, executed September 9, 2016, 40 pages.	
	29	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.	
	30	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.	
	31	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.	
	32	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.	
	33	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.	

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	First Named Inventor	MILLINGTON; Nicholas A.J.
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	Attorney Docket Number	05-0601-CON0319A

	34	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.	
	35	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.	
	36	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.	
	37	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.	
	38	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.	
	39	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.	
	40	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.	
	41	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.	
	42	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.	
	43	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.	
	44	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 2: Defendants' Invalidity Contentions for U.S. Patent No. 8,588,949 filed April 15, 2016, 112 pages.	

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	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

	45	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 3: Defendants' Invalidity Contentions for U.S. Patent No. 8,843,224 filed April 15, 2016, 118 pages.	
	46	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 4: Defendants' Invalidity Contentions for U.S. Patent No. 8,938,312 filed April 15, 2016, 217 pages.	
	47	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 5: Defendants' Invalidity Contentions for U.S. Patent No. 8,938,637 filed April 15, 2016, 177 pages.	
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	49	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 7: Defendants' Invalidity Contentions for U.S. Patent No. 9,130,771 filed April 15, 2016, 203 pages.	
	50	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 8: Defendants' Invalidity Contentions for U.S. Patent No. 9,195,258 filed April 15, 2016, 400 pages.	

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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

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

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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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Signature	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58443

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EFS ID:	35585153
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
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Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
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25	Non Patent Literature	SONOSVDM_DI_242_ANDREWS_101_OPINION.PDF	2351389 82e684ae9517b90c48e69ed0fc09299e7355b2f4	no	16
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27	Non Patent Literature	SONOSVDM_SONOS_SUPP_REPLY_MARKHAM-36_PAGES.PDF	5088392 0d622dd93687230fa6aa2cd451889a4035e417ab	no	36
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28	Non Patent Literature	DECLARATION_VISSER_9-9-2016.PDF	649129 b7aa741947f051aaee74564807017a31d1010189	no	40
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37	Non Patent Literature	EXHIBIT7_AMENDED_INVALIDITY_CHARTS_9195258_PATENT-.PDF	1186146 0664d301fcf4b22fc849ffeabcf5ddcceef694b8	no	418
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38	Non Patent Literature	EXHIBIT8_AMENDED_INVALIDITY_CHARTS_9202509_PATENT-.PDF	2303729 05584fc5a70ea3ac116f27c8c5fbec3043655ba9	no	331
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39	Non Patent Literature	EXHIBIT9_AMENDED_INVALIDITY_CHARTS_9213357_PATENT-.PDF	723000 12901d011e27ba6b805ed4a6444783c27bd641ba	no	251
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Warnings:					
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50	Non Patent Literature	EXHIBIT8_INVALIDITY_CHARTS_9195258_PATENT.PDF	1047991 903f84197fa1f655802591d3fb1e9f9a13a5edd6	no	400
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(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, JOON H
Attorney Docket Number	05-0601-CON0319A

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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	1	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.	
	2	Notice of Allowance mailed on 13 July 2017, issued in connection with U.S. Patent Application No. 13/895076, filed on 15 May 2013, 10 pages.	
	3	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.	
	4	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.	
	5	Notice of Allowance mailed on 14 August 2012, issued in connection withU.S. Patent Application No. 11/147116, filed on 06 June 2005, 33 pages.	
	6	Notice of Allowance mailed on 14 December 2016, issued in connection with U.S. Patent Application No. 15/088906, filed on 01 April 2016, 9 pages.	
	7	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.	
	8	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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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	12	Notice of Allowance mailed on 17 May 2018, issued in connection with U.S. Patent Application No. 14/805085, filed on 21 July 2015, 18 pages.	
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	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	23	Notice of Allowance mailed on 25 September 2014, issued in connection with U.S. Patent Application No. 14/176808, filed on 10 February 2014, 5 pages.	
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	25	Notice of Allowance mailed on 27 August 2015, issued in connection with U.S. Patent Application No. 13/705177, filed on 05 December 2012, 34 pages.	
	26	Notice of Allowance mailed on 27 August 2015, issued in connection with U.S. Patent Application No. 14/505027, filed on 02 October 2014, 18 pages.	
	27	Notice of Allowance mailed on 27 December 2011, issued in connection with U.S. Patent Application No. 10/816217, filed 01 April 2004, 15 pages.	
	28	Notice of Allowance mailed on 27 March 2017, issued in connection with U.S. Patent Application No. 15/089758, filed on 04 April 2016, 7 pages.	
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	30	Notice of Allowance mailed on 28 March 2017, issued in connection with U.S. Patent Application No. 15/155149, filed on 16 May 2016, 7 pages.	
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	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	34	Notice of Allowance mailed on 29 July 2015, issued in connection with U.S. Patent Application No. 13/359976, filed on 27 January 2012, 28 pages.	
	35	Notice of Allowance mailed on 29 July 2015, issued in connection with U.S. Patent Application No. 14/186850, filed on 21 February 2014, 9 pages.	
	36	Notice of Allowance mailed on 29 March 2017, issued in connection with U.S. Patent Application No. 14/803953, filed on 20 July 2015, 8 pages.	
	37	Notice of Allowance mailed on 3 April 2017, issued in connection with U.S. Patent Application No. 15/088678, filed on 1 April 2016, 8 pages.	
	38	Notice of Allowance mailed on 30 August 2016, issued in connection with U.S. Patent Application No. 14/290493, filed on 29 May 2014, 7 pages.	
	39	Notice of Allowance mailed on 30 July 2015, issued in connection with U.S. Patent Application No. 13/705178, filed on05 December 2012, 18 pages.	
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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	45	Notice of Intent to Issue Re-Examination Certificate mailed on 03 August 2017, issued in connection with U.S. Patent Application No. 90/013882, filed on 27 December 2016, 20 pages.	
	46	NUTZEL et al., "Sharing Systems for Future HiFi Systems," IEEE, 2004, 9 pages.	
	47	Office Action in Ex Parte Reexamination mailed on 20 October 2017, issued in connection with U.S. Patent Reexamination Application No. 90/013959, filed on 16 June 2017, 50 pages.	
	48	"Sonos Multi-Room Music System User Guide," Version 090401, Sonos, Inc. 1 April 2009, 256 pages.	
	49	Palm, Inc., "Handbook for the Palm VII Handheld," May 2000, 311 pages.	

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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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OR

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Signature	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-02
Name/Print	Michael E. Coyne	Registration Number	58443

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Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
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Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
Filing Date:	11-MAR-2019
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8	Non Patent Literature	13705174_NOA_7-15-15.PDF	695889 3e49a60400b70e64187a234aef3930d860c35a0d	no	18
Warnings:					
Information:					

9	Non Patent Literature	15080716_NOA_03-15-2017-V2.PDF	399948 a33be2beda5adf3780542334e26e117e57aa46dc	no	7
Warnings:					
Information:					
10	Non Patent Literature	10861653_NOA_6-16-09.PDF	444515 cbd2c405682be3420c30699d21112a52fef45cfa	no	11
Warnings:					
Information:					
11	Non Patent Literature	13864251_NOA_7-17-15.PDF	770290 85c20404af42c40d4dd557d41c27f4f9cd322c29	no	20
Warnings:					
Information:					
12	Non Patent Literature	14805085_NOA_13-0601-CON0515_5-17-18_18PAGES.PDF	733275 20f61ad0a56e7d4fc10ea67c8935844a8bd7fab2	no	18
Warnings:					
Information:					
13	Non Patent Literature	13618829_NOA_12-0903_07-18-2014_8PAGES-V2.PDF	442228 acba86d818944df4cd03225fe85ddb7b024ca2df	no	8
Warnings:					
Information:					
14	Non Patent Literature	13907666_NOA_5-19-15.PDF	407923 f502be4aefeae6f0c3ee493757b88ae48d95988a	no	7
Warnings:					
Information:					
15	Non Patent Literature	14290493_NOA_10-19-2016.PDF	618445 4322832bd8d8d1cc642b83fad2ee6c8cbe2ee35c	no	14
Warnings:					
Information:					

16	Non Patent Literature	13297000_NOA_9-21-15.PDF	529283 99ce09477646ca7902e5bf66dbed4d40bfea77a6	no	11
Warnings:					
Information:					
17	Non Patent Literature	15080716_NOA_12-22-16.PDF	432383 76440abef9b2284eb5c7b985572f99fa74058095	no	9
Warnings:					
Information:					
18	Non Patent Literature	13888203_NOA_9-22-15.PDF	411233 e54c4fe1f49a9a63a7b31bbfe81d49a996bbe7b4	no	7
Warnings:					
Information:					
19	Non Patent Literature	14803953_NOA_11-23-2016.PDF	826777 3039be1cc32b0160ac63b8c229b24de25f847be2	no	21
Warnings:					
Information:					
20	Non Patent Literature	13705174_NOA_9-24-15.PDF	413217 74c71ec6a4ee5a1f6a067ed1a1e1cc2650d782c3	no	7
Warnings:					
Information:					
21	Non Patent Literature	14184935_NOA_9-24-15.PDF	415504 933073e938124df94cebb8ebcd712e48ee3bd667	no	7
Warnings:					
Information:					
22	Non Patent Literature	15156392_NOTICEOFALLOWANCE_04-25-17_04-0401-CON0416B.PDF	404003 20cf4dff23831f7e9900c718c20cba707e8ee4c0	no	8
Warnings:					
Information:					

23	Non Patent Literature	14176808_NOA_9-25-14.PDF	361816 ecd5d1db5c7a06f224a4546e60d9c785f14f6706	no	5
Warnings:					
Information:					
24	Non Patent Literature	13932864_NOA_4-27-15.PDF	937281 5d18555250572da9cfcf16f33a3696b2b206f887	no	20
Warnings:					
Information:					
25	Non Patent Literature	13705177_NOA_8-27-15.PDF	1138649 5f730fc9e460ad7c046dd7297117cd59b5e921fa	no	34
Warnings:					
Information:					
26	Non Patent Literature	14505027_NOA_8-27-15.PDF	560784 76142b5c65866b661459813fe444dddc5d095a6a	no	18
Warnings:					
Information:					
27	Non Patent Literature	10816217_NOA_27DEC2011.PDF	660400 2588cea2240eb88269534644 0ba3900c95b663ca	no	15
Warnings:					
Information:					
28	Non Patent Literature	15089758_NOTICEOFALLOWANCE_27MAR2017_7PAGES.PDF	400402 17933b3151de38339783c202e0336b2e0dd13b94	no	7
Warnings:					
Information:					
29	Non Patent Literature	15088906_NOTICE_OF_ALLOWANCE_3-28-17_7_PAGES.PDF	400440 5cd765b8947a4698bb451adbd83234342187c595	no	7
Warnings:					
Information:					

30	Non Patent Literature	15155149_NOA_3-28-2017_7PAGES.PDF	399758 37a346a79c3355af01d692687bbe4e56008d6d86	no	7
Warnings:					
Information:					
31	Non Patent Literature	PARASOUND_ZPRE2_PREAMPLIFIER.PDF	2514602 b5c364499fb3c440e0d34da20e4588207ad844d6	no	16
Warnings:					
Information:					
32	Non Patent Literature	15091014_NOA_05-0601-CON0316A_11-28-17_8PAGES.PDF	430679 0afc03426e6808ecee494deb1967ba36fec279c2	no	8
Warnings:					
Information:					
33	Non Patent Literature	13863083_NOA_4-29-15.PDF	901353 0cbb7cc507d596d144f82fd1f20ebbc3aba7a38d	no	19
Warnings:					
Information:					
34	Non Patent Literature	13359976_NOA_7-29-15.PDF	1036691 cec3a24f34a1aa66bc1acacc918278cd7a63a9ce	no	28
Warnings:					
Information:					
35	Non Patent Literature	14186850_NOA_7-29-15.PDF	481117 79d87c39d3a3012f5eb30efb6d86e0a96194193d	no	9
Warnings:					
Information:					
36	Non Patent Literature	14803953_NOA_03-29-2017.PDF	424467 96fb2b370f2a8e539ff1d69692cb5342bf4e9822	no	8
Warnings:					
Information:					

37	Non Patent Literature	15088678_NOA_04-0401-CON0316E_04-03-2017_8PAGES-V2.PDF	405540 cb698c1524c9bb43d7f903c11e225aadc334f015	no	8
Warnings:					
Information:					
38	Non Patent Literature	14290493_NOA_08-30-2016.PDF	395072 10bcce87e174a8955b2e144c80ea7f0f3bebdbf4	no	7
Warnings:					
Information:					
39	Non Patent Literature	13705178_NOA_7-30-15.PDF	747680 b29e96b4c7c9a63ea20c043e74a9575abac82d80	no	18
Warnings:					
Information:					
40	Non Patent Literature	15088532_NOTICEOFALLOWANCE_30MAR2017-7PAGES.PDF	401200 dd2df9a46b216268023cb96735028e5e3131be5b	no	7
Warnings:					
Information:					
41	Non Patent Literature	13435776_NOA_8-5-15.PDF	961714 beb431d30ebdcf39b068cc88a8dd58fb6dfe5d41	no	26
Warnings:					
Information:					
42	Non Patent Literature	15088283_NOTICEOFALLOWANCE_04-06-17_04-0401-CON0316C.PDF	400587 11e0567beaeca9bb9d809995584 59f0b0ffb51d4	no	7
Warnings:					
Information:					
43	Non Patent Literature	13297000_NOA_7-6-15.PDF	913289 830c7a8383964fb21916566b79fef77848a66658	no	24
Warnings:					
Information:					

44	Non Patent Literature	90013959-NOTICEOFINCOMPLETEREEXAMREQUEST-05-25-17_10PAGES.PDF	517179 d1a56fbcbf42a638a85bce98f2d889dce897edb0	no	10
Warnings:					
Information:					
45	Non Patent Literature	90013882_NOTICE_OF_INTENT_TO_ISSUE_REXAM_CERT_04-0601-REXAM_8-3-17_20PAGES.PDF	654040 b0bd894767761a5b914bd3b0fa9071b0426ece91	no	20
Warnings:					
Information:					
46	Non Patent Literature	NUTZEL_2004.PDF	519128 576094b8a2d664dd28b5bf27916f0542fba77d80	no	9
Warnings:					
Information:					
47	Non Patent Literature	90013959_NFOA_04-0401-REEXAM_10-20-17_50PAGES.PDF	1959821 bda6577119863329c0d733a048a5a01466fcb868	no	50
Warnings:					
Information:					
48	Non Patent Literature	SONOS_MULTI-ROOM_MUSIC_SYSTEM_USER_GUIDE_4-1-09.PDF	11322556 d4ca2ba986d953d6413acd3160cbe4009a56abf1	no	256
Warnings:					
Information:					
49	Non Patent Literature	PALM_HANDBOOK_FOR_PALM_VII_MAY2000.PDF	8648017 cb981d3822d2c4b4fd36cee5a8aa25c80d4e492c	no	311
Warnings:					
Information:					
50	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_7_IDS_20190329095315.pdf	1054852 68232a305f2e3f8bf42f9b32c66480391e27c666	no	8
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First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG; Joon H
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U.S.PATENTS Remove

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
	1	7046677		2006-05-16	MONTA; Peter et al.	
	2	7047308		2006-05-16	DESHPANDE; Sachin G.	
	3	7054888		2006-05-30	LACHAPELLE; Kevin Leigh et al.	
	4	7058889		2006-06-06	TROVATO; Karen I. et al.	
	5	7068596		2006-06-27	MOU; Hensen	
	6	7092528		2006-08-15	PATRICK; Kyle N. et al.	
	7	7092694		2006-08-15	GRIEP; Pieter Dingenis et al.	
	8	7096169		2006-08-22	CRUTCHFIELD; William G. et al.	

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	9	7102513		2006-09-05	TASKIN; Metin Ismail et al.	
	10	7113999		2006-09-26	PESTONI; Florian et al.	
	11	7115017		2006-10-03	LAURSEN; Thomas et al.	
	12	7120168		2006-10-10	ZIMMERMANN; Klaus	
	13	7130316		2006-10-31	KOVACEVIC; Branko D.	
	14	7130368		2006-10-31	AWEYA; James et al.	
	15	7130608		2006-10-31	HOLLSTROM; Magnus et al.	
	16	7130616		2006-10-31	JANIK; Craig M.	
	17	7136934		2006-11-14	CARTER; Harry Nick et al.	
	18	7139981		2006-11-21	MAYER; Theodore et al.	
	19	7143141		2006-11-28	MORGAN; Jeffrey A. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	20	7143939		2006-12-05	HENZERLING; David P.	
	21	7146260		2006-12-05	PRESTON; Dan Alan et al.	
	22	7158488		2007-01-02	FUJIMORI; Junichi	
	23	7161939		2007-01-09	ISRAEL; David et al.	
	24	7162315		2007-01-09	GILBERT; Erik J.	
	25	7164694		2007-01-16	NODOUSHANI; Paiman et al.	
	26	7167765		2007-01-23	JANIK; Craig M.	
	27	7185090		2007-02-27	KOWALSKI; John Michael et al.	
	28	7187947		2007-03-06	WHITE; Russell W. et al.	
	29	7188353		2007-03-06	CRINON; Regis J.	
	30	7197148		2007-03-27	NOURSE; James D. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	31	7206367		2007-04-17	MOORE; Daniel L [Us] et al.	
	32	7206618		2007-04-17	LATTO; Antonio T. et al.	
	33	7206967		2007-04-17	MARTI; Philippe et al.	
	34	7209795		2007-04-24	SULLIVAN; Gary E. et al.	
	35	7218708		2007-05-15	BEREZOWSKI; Andrew G. et al.	
	36	7218930		2007-05-15	KO; Ming-Chih et al.	
	37	7236739		2007-06-26	CHANG; Chin-Chi [Tw] et al.	
	38	7236773		2007-06-26	THOMAS; Graham	
	39	7251533		2007-07-31	YOON; Hong S. et al.	
	40	7257398		2007-08-14	UKITA; Yoshitaka et al.	
	41	7260616		2007-08-21	COOK; Fred S.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	42	7263070		2007-08-28	DELKER; Jason et al.	
	43	7263110		2007-08-28	FUJISHIRO; Yoshiya	
	44	7277547		2007-10-02	DELKER; Jason R. et al.	
	45	7286652		2007-10-23	AZRIEL; Gad et al.	
	46	7289631		2007-10-30	ISHIDOSHIRO; Takashi	
	47	7293060		2007-11-06	KOMSI; Asko	
	48	7295548		2007-11-13	BLANK; William Thomas [Us] et al.	
	49	7305694		2007-12-04	COMMONS; Christopher et al.	
	50	7308188		2007-12-11	NAMATAME; Kazushi	
	51	7310334		2007-12-18	FITZGERALD; Cary et al.	
	52	7312785		2007-12-25	TSUK; Robert W. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	53	7313593		2007-12-25	PULITO; Brian et al.	
	54	7319764		2008-01-15	REID; Glenn et al.	
	55	7324857		2008-01-29	GODDARD; Mark D.	
	56	7330875		2008-02-12	PARASNIS; Shashank Mohan et al.	
	57	7333519		2008-02-19	SULLIVAN; Gary E. et al.	
	58	7356011		2008-04-08	WATERS; Christopher J. F. et al.	
	59	7359006		2008-04-15	XIANG; Shuhua et al.	
	60	7366206		2008-04-29	LOCKRIDGE; Terry Wayne et al.	
	61	7372846		2008-05-13	ZWACK; Eduard	
	62	7383036		2008-06-03	KANG; Sung H. et al.	
	63	7391791		2008-06-24	BALASSANIAN; Edward et al.	

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	64	7392102		2008-06-24	SULLIVAN; Gary E. et al.	
	65	7392481		2008-06-24	GEWICKEY; Greg et al.	
	66	7394480		2008-07-01	SONG; Young-Joong	
	67	7400644		2008-07-15	SAKAMOTO; Ichiro et al.	
	68	7412499		2008-08-12	CHANG; Chun-Shi et al.	
	69	7428310		2008-09-23	PARK; Jeong-Hyun	
	70	7430181		2008-09-30	HONG; Jay Wu	
	71	7433324		2008-10-07	SWITZER; David et al.	
	72	7434166		2008-10-07	ACHARYA; Shrikant et al.	
	73	7457948		2008-11-25	BILICKSA; Carl et al.	
	74	7469139		2008-12-23	VAN DE GROENENDAAL; Joannes G.	

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	75	7472058		2008-12-30	TSENG; Wei-Hsin et al.	
	76	7474677		2009-01-06	TROTT; Christian A.	
	77	7483538		2009-01-27	MCCARTY; William A. et al.	
	78	7483540		2009-01-27	RABINOWITZ; William M. et al.	
	79	7483958		2009-01-27	ELABBADY; Tarek Z. et al.	
	80	7492912		2009-02-17	CHUNG; Yun M. et al.	
	81	7505889		2009-03-17	SALMONSEN; Daniel R. et al.	
	82	7509181		2009-03-24	CHAMPION; Mark	
	83	7519667		2009-04-14	CAPPS; Stephen P.	
	84	7548744		2009-06-16	OESTERLING; Christopher L. et al.	
	85	7548851		2009-06-16	LAU; Jack et al.	

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	86	7558224		2009-07-07	SURAZSKI; Luke K. et al.	
	87	7558635		2009-07-07	THIEL; Steffen et al.	
	88	7571014		2009-08-04	LAMBOURNE; Robert A [Us] et al.	
	89	7574274		2009-08-11	HOLMES; Stephen G.	
	90	7599685		2009-10-06	GOLDBERG; David et al.	
	91	7606174		2009-10-20	OCHI; Mitsunori et al.	
	92	7607091		2009-10-20	SONG; Young-Wun et al.	
	93	7627825		2009-12-01	KAKUDA; Hiroshi	
	94	7630501		2009-12-08	BLANK; William Tom [Us] et al.	
	95	7631119		2009-12-08	MOORE; Jeffrey C. et al.	
	96	7643894		2010-01-05	BRAITHWAITE; Michael et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	97	7653344		2010-01-26	FELDMAN; Theodore Philip et al.	
	98	7657224		2010-02-02	GOLDBERG; David et al.	
	99	7657644		2010-02-02	ZHENG; Qinghua	
	100	7657910		2010-02-02	MCAULAY; Roger [Us] et al.	
	101	7665115		2010-02-16	GALLO; Kevin T. et al.	
	102	7668990		2010-02-23	KRZYZANOWSKI; Paul et al.	
	103	7669113		2010-02-23	MOORE; Jeff et al.	
	104	7669219		2010-02-23	SCOTT; Samuel T.III.	
	105	7672470		2010-03-02	LEE; Jae-Hoon	
	106	7675943		2010-03-09	MOSIG; Rudiger et al.	
	107	7676044		2010-03-09	SASAKI; Toru [Jp] et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	108	7676142		2010-03-09	HUNG; Andy Chao	
	109	7688306		2010-03-30	WEHRENBERG; Paul J. et al.	
	110	7689304		2010-03-30	SASAKI; Yoshio	
	111	7689305		2010-03-30	KREIFELDT; Richard A. et al.	
	112	7702279		2010-04-20	KO; Steve et al.	
	113	7702403		2010-04-20	GLADWIN; Stephen Christopher et al.	
	114	7710941		2010-05-04	RIETSCHEL; Johannes et al.	
	115	7711774		2010-05-04	ROTHSCHILD; Leigh M.	
	116	7720096		2010-05-18	KLEMETS; Anders E.	
	117	7721032		2010-05-18	BUSHELL; John Samuel et al.	
	118	7742740		2010-06-22	GOLDBERG; David et al.	

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	119	7743009		2010-06-22	HANGARTNER; Rick et al.	
	120	7746906		2010-06-29	JINZAKI; Akira et al.	
	121	7756743		2010-07-13	LAPCEVIC; Thomas G.	
	122	7761176		2010-07-20	BEN-YAACOV YAACOV . et al.	
	123	7765315		2010-07-27	BATSON; James D. et al.	
	124	7793206		2010-09-07	LIM; Seh E. et al.	
	125	7827259		2010-11-02	HELLER; David et al.	
	126	7831054		2010-11-09	BALL; Steven J. et al.	
	127	7835689		2010-11-16	GOLDBERG; David et al.	
	128	7853341		2010-12-14	MCCARTY; William A. et al.	
	129	7865137		2011-01-04	GOLDBERG; David et al.	

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	130	7882234		2011-02-01	WATANABE; Mitsuhiro et al.	
	131	7885622		2011-02-08	KRAMPF; Steven S. et al.	
	132	7907819		2011-03-15	ANDO; Hideo et al.	
	133	7916877		2011-03-29	GOLDBERG; David et al.	
	134	7917082		2011-03-29	GOLDBERG; David et al.	
	135	7933418		2011-04-26	MORISHIMA; Morito	
	136	7934239		2011-04-26	DAGMAN; Vadim	
	137	7945143		2011-05-17	YAHATA; Hiroshi et al.	
	138	7945636		2011-05-17	NELSON; Hortense Kathleen et al.	
	139	7945708		2011-05-17	OHKITA; Hideki	
	140	7958441		2011-06-07	HELLER; David [Us] et al.	

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	141	7966388		2011-06-21	PUGACZEWSKI; John T. et al.	
	142	7987294		2011-07-26	BRYCE; Stuart [Au] et al.	
	143	7995732		2011-08-09	KOCH; Robert et al.	
	144	7996566		2011-08-09	SYLVAIN; Dany et al.	
	145	7996588		2011-08-09	SUBBIAH; Baranitharan et al.	
	146	8014423		2011-09-06	THALER; Thomas et al.	
	147	8015306		2011-09-06	BOWMAN; Timothy D.	
	148	8020023		2011-09-13	MILLINGTON; Nicholas A.J. et al.	
	149	8023663		2011-09-20	GOLDBERG; David	
	150	8028038		2011-09-27	WEEL; Martin	
	151	8028323		2011-09-27	WEEL; Martin	

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	152	8041062		2011-10-18	COHEN; Ephram et al.	
	153	8045721		2011-10-25	BURGAN; John M. et al.	
	154	8045952		2011-10-25	QURESHEY; Safi et al.	
	155	8050203		2011-11-01	JACOBSEN; Phillip et al.	
	156	8050652		2011-11-01	QURESHEY; Safi et al.	
	157	8055364		2011-11-08	CHAMPION; Mark	
	158	8074253		2011-12-06	NATHAN; Guy	
	159	8086752		2011-12-27	MILLINGTON; Nicholas A.J. et al.	
	160	8090317		2012-01-03	BURGE; Benjamin D. et al.	
	161	8103009		2012-01-24	MCCARTY; William A. et al.	
	162	8111132		2012-02-07	ALLEN; William A. et al.	

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	163	8112032		2012-02-07	KO; Steve et al.	
	164	8116476		2012-02-14	INOHARA; Yuichi	
	165	8126172		2012-02-28	HORBACH; Ulrich et al.	
	166	8131389		2012-03-06	HARDWICK; John C. et al.	
	167	8131390		2012-03-06	BRAITHWAITE; Michael et al.	
	168	8144883		2012-03-27	PDERSEN; Jan A. et al.	
	169	8148622		2012-04-03	ROTHKOPF; Fletcher R. et al.	
	170	8150079		2012-04-03	MAEDA; Kazuhiro et al.	
	171	8169938		2012-05-01	DUCHSCHER; Rob et al.	
	172	8170222		2012-05-01	DUNKO; Gregory A.	
	173	8170260		2012-05-01	REINING; Friedrich et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	174	8175297		2012-05-08	HO; Harvey et al.	
	175	8185674		2012-05-22	MOORE; Jeffrey C. et al.	
	176	8194874		2012-06-05	STAROBIN; Bradley M. et al.	
	177	8204890		2012-06-19	GOGAN; Brian [Us] et al.	
	178	8208653		2012-06-26	EO; Kil-Su et al.	
	179	8214447		2012-07-03	DESLIPPE; Mark H. et al.	
	180	8214740		2012-07-03	JOHNSON; Timothy	
	181	8214873		2012-07-03	WEEL; Martin	
	182	8218790		2012-07-10	BULL; William et al.	
	183	8230099		2012-07-24	WEEL; Martin	
	184	8233029		2012-07-31	YOSHIDA; Junji et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	185	8233648		2012-07-31	SOREK; Noam et al.	
	186	8234395		2012-07-31	MILLINGTON; Nicholas A J [Us] et al.	
	187	8239748		2012-08-07	MOORE; Jeff et al.	
	188	8279709		2012-10-02	CHOISEL; Sylvain et al.	
	189	8281001		2012-10-02	BUSAM; Vincent R. et al.	
	190	8285404		2012-10-09	KEKKI; Samuli T.	
	191	8290603		2012-10-16	LAMBOURNE; Robert A [Us] et al.	
	192	8300845		2012-10-30	ZUREK; Robert et al.	
	193	8311226		2012-11-13	LORGEOUX; Mickael et al.	
	194	8315555		2012-11-20	KO; Steve et al.	
	195	8316147		2012-11-20	BATSON; James D. et al.	

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	196	8325931		2012-12-04	HOWARD; Damian et al.	
	197	8326951		2012-12-04	MILLINGTON; Nicholas A J [Us] et al.	
	198	8340330		2012-12-25	YOON; Eung-Sik et al.	
	199	8345709		2013-01-01	NITZPON; Hans-Juergen et al.	
	200	8364295		2013-01-29	BECKMANN; Paul E. et al.	
	201	8370678		2013-02-05	MILLINGTON; Nicholas A. J. et al.	
	202	8374595		2013-02-12	CHIEN; Chih-Ling et al.	
	203	8407623		2013-03-26	KERR; Duncan et al.	
	204	8411883		2013-04-02	MATSUMOTO; Keishi	
	205	8423659		2013-04-16	MILLINGTON; Nicholas A. J.	
	206	8423893		2013-04-16	RAMSAY; Max Gordon et al.	

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	207	8432851		2013-04-30	XU; Guijin et al.	
	208	8433076		2013-04-30	ZUREK; Robert et al.	
	209	8442239		2013-05-14	BRUELLE-DREWS CHRISTIAN . et al.	
	210	8457334		2013-06-04	YOON; Eung-Sik et al.	
	211	8463184		2013-06-11	DUA; Robin	
	212	8463875		2013-06-11	KATZ; Hagay et al.	
	213	8473844		2013-06-25	KREIFELDT; Richard A. et al.	
	214	8477958		2013-07-02	MOELLER; Klaus R. et al.	
	215	8483853		2013-07-09	LAMBOURNE; Robert A [Us] et al.	
	216	8509211		2013-08-13	TROTTER; John et al.	
	217	8520870		2013-08-27	SATO; Katsuyuki et al.	

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	218	8565455		2013-10-22	WORRELL; Devon et al.	
	219	8577048		2013-11-05	CHAIKIN; Peter et al.	
	220	8588949		2013-11-19	LAMBOURNE; Robert A. et al.	
	221	8600084		2013-12-03	GARRETT; James E.	
	222	8611559		2013-12-17	SANDERS; Christopher	
	223	8615091		2013-12-24	TERWAL; Remco	
	224	8639830		2014-01-28	BOWMAN; Timothy D.	
	225	8654995		2014-02-18	SILBER; Michael W. et al.	
	226	8672744		2014-03-18	GRONKOWSKI; Timothy T. et al.	
	227	8683009		2014-03-25	NG; Stanley et al.	
	228	8731206		2014-05-20	PARK; Keun Young	

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	229	8750282		2014-06-10	GELTER; Aaron et al.	
	230	8751026		2014-06-10	SATO; Teppei et al.	
	231	8762565		2014-06-24	TOGASHI; Ryuichiro et al.	
	232	8775546		2014-07-08	MILLINGTON; Nicholas A. J.	
	233	8818538		2014-08-26	SAKATA; Junichiro	
	234	8819554		2014-08-26	BASSO; Andrea et al.	
	235	8831761		2014-09-09	KEMP; Thomas et al.	
	236	8843586		2014-09-23	PANTOS; Roger et al.	
	237	8861739		2014-10-14	OJANPERA; Juha P.	
	238	8868698		2014-10-21	MILLINGTON; Nicholas A. J. et al.	
	239	8885851		2014-11-11	WESTENBROEK; Marcel	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	240	8904066		2014-12-02	MOORE; Jeffrey C. et al.	
	241	8917877		2014-12-23	HAAFF; Olle et al.	
	242	8930006		2015-01-06	HAATAINEN; Niko	
	243	8934647		2015-01-13	JOYCE; John et al.	
	244	8934655		2015-01-13	BREEN; John J. et al.	
	245	8942252		2015-01-27	BALASSANIAN; Edward et al.	
	246	8942395		2015-01-27	LISSAMAN; Geoff et al.	
	247	8954177		2015-02-10	SANDERS; Christopher John	
	248	8965544		2015-02-24	RAMSAY; Max Gordon	
	249	8966394		2015-02-24	GATES; Patrick et al.	
	250	9042556		2015-05-26	KALLAI; Christopher [Us] et al.	

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	251	9130770		2015-09-08	MILLINGTON; Nicholas A.J. et al.	
	252	9137602		2015-09-15	MAYMAN; Avrum G. et al.	
	253	9160965		2015-10-13	REDMANN; William Gibbens et al.	
	254	9195258		2015-11-24	MILLINGTON; Nicholas A.J.	
	255	9456243		2016-09-27	HUGHES; Gary et al.	
	256	9507780		2016-11-29	ROTHKOPF; Fletcher R [Us] et al.	

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20010001160		2001-05-10	SHOFF; Daniel J. et al.	
	2	20010009604		2001-07-26	ANDO; Hideo et al.	
	3	20010022823		2001-09-20	RENAUD; Pierre	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	4	20010027498		2001-10-04	VAN DE MEULENHOF; Dennis et al.	
	5	20010032188		2001-10-18	MIYABE; Yoshiyuki et al.	
	6	20010042107		2001-11-15	PALM; Stephen R.	
	7	20010043456		2001-11-22	ATKINSON; Lee	
	8	20010046235		2001-11-29	TREVITT; Stephen et al.	
	9	20010047377		2001-11-29	SINCAGLIA; Nicholas William et al.	
	10	20010050991		2001-12-13	EVES; David A.	
	11	20020002039		2002-01-03	QURESHEY; Safi et al.	
	12	20020002562		2002-01-03	MORAN; Thomas P. et al.	
	13	20020002565		2002-01-03	OHYAMA; Akira	
	14	20020003548		2002-01-10	KRUSCHE; Arnd et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	15	20020015003		2002-02-07	KATO; Masami et al.	
	16	20020022453		2002-02-21	BALOG; Horia et al.	
	17	20020026442		2002-02-28	LIPSCOMB; Kenneth O. et al.	
	18	20020034374		2002-03-21	BARTON; James M.	
	19	20020035621		2002-03-21	ZINTEL; William Michael et al.	
	20	20020042844		2002-04-11	CHIAZZESE; Giovanni	
	21	20020049843		2002-04-25	BARONE; Samuel T. et al.	
	22	20020062406		2002-05-23	CHANG; William Ho et al.	
	23	20020065926		2002-05-30	HACKNEY; Michael L.J. et al.	
	24	20020067909		2002-06-06	IIVONEN; Jukka-Pekka	
	25	20020072816		2002-06-13	SHDEMA; Yoav [Il] et al.	

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	26	20020072817		2002-06-13	CHAMPION; Mark	
	27	20020073228		2002-06-13	COGNET; Yves et al.	
	28	20020078293		2002-06-20	KOU; Sho et al.	
	29	20020080783		2002-06-27	FUJIMORI; Junichi [Jp] et al.	
	30	20020090914		2002-07-11	KANG; Hyun-Sook et al.	
	31	20020093478		2002-07-18	YEH; Chun Lin	
	32	20020095460		2002-07-18	BENSON; Michael	
	33	20020098878		2002-07-25	MOONEY; Philip D. et al.	
	34	20020101357		2002-08-01	GHARAPETIAN; Ara H.	
	35	20020103635		2002-08-01	MESAROVIC; Vladimir Z. et al.	
	36	20020109710		2002-08-15	HOLTZ; Alex et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	37	20020112244		2002-08-15	LIOU; Shih-Ping et al.	
	38	20020114354		2002-08-22	SINHA; Pranesh et al.	
	39	20020114359		2002-08-22	IBARAKI; Susumu et al.	
	40	20020124097		2002-09-05	ISELY; Larson J [Us] et al.	
	41	20020124182		2002-09-05	BACSO; Stephen R. et al.	
	42	20020129156		2002-09-12	YOSHIKAWA; Masato	
	43	20020131398		2002-09-19	TAYLOR; James L.	
	44	20020131761		2002-09-19	KAWASAKI; Kojiro et al.	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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]
	1	199961985	WO		1999-12-02	THE DOW CHEMICAL COMPANY.		

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	2	200153994	WO		2001-07-26	FRISKIT, INC.		
	3	2003093950	WO	A2	2003-11-13	GOLDBERG, BENJAMIN, M. et al.		
	4	2005013047	WO	A2	2005-02-10	SONOS INC [US], et al.		
	5	2007023120	WO	A1	2007-03-01	SONY ERICSSON MOBILE COMM AB [SE], et al.		
	6	2007127485	WO		2007-11-08	MICROSOFT CORPORATION.		
	7	2007131555	WO		2007-11-22	SONY ERICSOON MOBILE COMMUNICATIONS AB.		
	8	2007135581	WO	A2	2007-11-29	KONINKL PHILIPS ELECTRONICS NV [NL], et al.		
	9	2008082350	WO	A1	2008-07-10	SCANIA CV ABP [SE], et al.		
	10	2008114389	WO	A1	2008-09-25	PIONEER CORPORATION.		
	11	2012050927	WO		2012-04-19	BEYOND OBLIVION INC.		
	12	2014004182	WO		2014-01-03	SONOS, INC.		

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	13	2014149533	WO	A2	2014-09-25	BOSE CORPORATION.		

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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	Bluetooth. "Specification of the Bluetooth System: Wireless connections made easy," Core, Version 1.0 B, 1 December 1999, 1076 pages.	
	2	Bogen Communications, Inc., ProMatrix Digitally Matrixed Amplifier Model PM3180, Copyright1996, 2 pages.	
	3	BRASSIL et al., "Enhancing Internet Streaming Media with Cueing Protocols," 2000, 9 pages.	
	4	BREEBAART et al., "Multi-Channel Goes Mobile: MPEG Surround Binaural Rendering," AES 29th International Conference, September 2-4, 2006, pp. 1-13.	
	5	BRETL W.E., et al., MPEG2 Tutorial [online], 2000 [retrieved on 2009-01-13] Retrieved from the Internet:(http://www.bretl.com/mpeghtml/MPEGindex.htm), pp. 1-23.	
	6	CANADIAN INTELLECTUAL PROPERTY OFFICE, Canadian Office Action mailed on 04 April 2016, issued in connection with Canadian Patent Application No. 2,842,342, 5 pages.	
	7	CANADIAN INTELLECTUAL PROPERTY OFFICE, Canadian Office Action mailed on 14 September 2015, issued in connection with Canadian Patent Application No. 2,842,342, 2 pages.	
	8	CEN et al., "A Distributed Real-Time MPEG Video Audio Player," Department of Computer Science and Engineering, Oregon Graduate Institute of Science and Technology, 1995, 12 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Attorney Docket Number	05-0601-CON0319A

	9	CHAKRABARTI et al., "A Remotely Controlled Bluetooth Enabled Environment," IEEE, 2004, pp. 77-81.	
	10	Change Notification: Agere Systems WaveLan Multimode Reference Design (D2 to D3), AVAGO0042, Agere Systems, November 2004, 2 pages.	
	11	CHINESE OFFICE ACTION, Office Action mailed on 20 December 2016, issued in connection with Chinese Application No. 201380044446.8, 16 pages.	
	12	CHINESE PATENT OFFICE, Office Action mailed on 05 July 2016, issued in connection with Chinese Patent Application No. 201380044380.2, 25 pages.	
	13	CHINESE PATENT OFFICE, Second Office Action mailed on 27 February 2017, issued in connection with Chinese Patent Application No. 201380044380.2, 22 pages.	
	14	Connection Manager: 1 Service Template Version 1.01 For UPnP, Version 1.0 (June 25, 2002) (25 pages).	
	15	ContentDirectory:1 Service Template Version 1.01 For UPnP, Version 1.0 (June 25, 2002) (89 pages).	
	16	Corrected Notice of Allowability mailed on 23 December 2016, issued in connection with U.S. Patent Application No. 14/803953 filed on 20 July 2015, 18 pages.	
	17	Corrected Notice of Allowance mailed on 19 August 2015, issued in connection with U.S. Patent Application No. 13/907666, filed on 31 May 2013, 2 pages.	
	18	Creative, "Connecting Bluetooth Devices with Creative D200," http://support.creative.com/kb/ShowArticle.aspx?url=http://ask.creative.com:80/SRVS/CGI-BIN/WEBCGI.EXE/,/?St=106,E=0000000000396859016,K=9377,Sxi=8,VARSET=ws:http://us.creative.com,case=63350>, available on 11/28/2011, 2 pages.	
	19	Crown PIP Manual available for sale at least 2004, 68 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

	20	DANNENBERG et al., "A. System Supporting Flexible Distributed Real-Time Music Processing," Proceedings of the 2001 International Computer Music Conference, 2001, 4 pages.	
	21	DANNENBERG, Roger B., "Remote Access to Interactive Media," Proceedings of the SPIE 1785, 1993, pp. 230-237.	
	22	DAY, Rebecca, "Going Elan!" Primedia Inc., 2003, 4 pages.	
	23	Deep-Sleep Implementation in WL60011 for IEEE 802.11b Applications, AVAGO0020, Agere Systems, July 2004, 22 pages.	
	24	Dell, Inc. "Dell Digital Audio Receiver: Reference Guide," June 2000, 70 pages.	
	25	Dell, Inc. "Start Here," June 2000, 2 pages.	
	26	"Denon 2003-2004 Product Catalog," Denon, 2003-2004, 44 pages.	
	27	Denon AV Surround Receiver AVR-1604/684 User's Manual, 2004, 128 pages.	
	28	Denon AV Surround Receiver AVR-5800 Operating Instructions, Copyright 2000, 67 pages.	
	29	Designing a UPnP AV MediaServer, Nelson Kidd (2003) (SONDM000115062-116) (55 pages).	
	30	DHIR, Amit, "Wireless Home Networks - DECT, Bluetooth, Home RF, and Wirelss LANs," XILINX, wp135 (v1.0), March 21, 2001, 18 pages.	

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	31	"DP-0206 Digital Signal Processor," TOA Electronics, Inc., 2001, pp. 1-12.	
	32	EUROPEAN PATENT OFFICE, European Extended Search Report mailed 07 March 2016, issued in connection with EP Application No. 13810340.3, 9 pages.	
	33	EUROPEAN PATENT OFFICE, European Extended Search Report mailed on 28 February 2014, issued in connection with EP Application No. 13184747.7, 8 pages.	
	34	EUROPEAN PATENT OFFICE, European Extended Search Report mailed on 31 March 2015, issued in connection with EP Application No. 14181454.1, 9 pages.	
	35	EUROPEAN PATENT OFFICE, Examination Report mailed on 22 March 2016, issued in connection with European Patent Application No. EP14181454.1, 6 pages.	
	36	EUROPEAN PATENT OFFICE, Examination Report mailed on 24 October 2016, issued in connection with European Patent Application No. 13808623.6, 4 pages.	
	37	EUROPEAN PATENT OFFICE, Office Action mailed 25 November 2016, issued in connection with EP Application No. 13810340.3, 5 pages.	
	38	FALCONE, John, "Sonos BU150 Digital Music System review," CNET, CNET [online] 2009.07.27 [retrieved on 2016.03.16], 11 pages Retrieved from the Internet: URL:http://www.cnet.com/products/sonos-bu150-digital-music-system/.	
	39	FALLER, Christof, "Coding of Spatial Audio Compatible with Different Playback Formats," Audio Engineering Society Convention Paper (Presented at the 117th Convention), October 28-31, 2004, 12 pages.	
	40	File History of Re-Examination Application No. 90/013,423 (Sonos Ref. No. 12-0902-REX) retrieved from the U.S. Patent Office (PAIR) on December 5, 2016, 313 pages.	

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	Application Number	16298515
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	Art Unit	2447
	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

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Signature	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58443

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Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
Filing Date:	11-MAR-2019
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Application Type:	Utility under 35 USC 111(a)

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(Not for submission under 37 CFR 1.99)

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG, JOON H
Attorney Docket Number	05-0601-CON0319A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	1	LIENHART et al., "On the Importance of Exact Synchronization for Distributed Audio Signal Processing," Session L: Poster Session II - ICASSP'03 Papers, 2002, 1 page.	
	2	LinkSys by Cisco, Wireless Home Audio Controller, Wireless-N Touchscreen Remote DMRW1000 Datasheet, Copyright 2008, 2 pages.	
	3	LinkSys by Cisco, Wireless Home Audio Controller, Wireless-N Touchscreen Remote DMRW1000 User Guide, Copyright 2008, 64 pages.	
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	5	LinkSys by Cisco, Wireless Home Audio Player, Wireless-N Music Extender DMP100 User Guide, Copyright 2008, 65 pages.	
	6	Linux SDK for UPnP Devices v. 1.2 (Sep. 6, 2002) (101 pages).	
	7	"Linux SDK for UPnP Devices vl.2," Intel Corporation, January 17, 2003, 102 pages.	
	8	LIU et al., "A synchronization control scheme for real-time streaming multimedia applications," Packet Video, 2003, 10 pages, Vol. 2003.	
	9	LIU et al., "Adaptive Delay Concealment for Internet Voice Applications with Packet-Based Time-Scale Modification," Information Technologies 2000, pp. 91-102.	
	10	LOUDERBACK, Jim, "Affordable Audio Receiver Furnishes Homes With MP3," TechTV Vault. 28 June 2000 retrieved 10 July 2014, 2 pages.	
	11	Maniactools, "Identify Duplicate Files by Sound," 09/28/2010, http://www.maniactools.com/soft/music-duplicate-remover/identify-duplicate-files-by-sound.shtml.	

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	12	MediaRenderer:1 Device Template Version 1.01 For UPnP, Version 1.0 (June 25, 2002) (12 pages).	
	13	MediaServer:1 Device Template Version 1.01 For UPnP, Version 1.0 (June 25, 2002) (12 pages).	
	14	Microsoft, Universal Plug and Play (UPnP) Client Support ("Microsoft UPnP") (August 2001) (D+M_0402007-24) (18 pages).	
	15	Microsoft Window's XP Reviewer's Guide (August 2001) (D+M_0402225-85) (61 pages).	
	16	"Microsoft Windows XP File and Printer Share with Microsoft Windows" Microsoft Windows XP Technical Article, 2003, 65 pages.	
	17	MILLS David L., "Network Time Protocol (Version 3) Specification, Implementation and Analysis," Network Working Group, March 1992, 7 pages.	
	18	MILLS, David L., "Precision Synchronization of Computer Network Clocks," ACM SIGCOMM Computer Communication Review, 1994, pp. 28-43, Vol. 24, No. 2.	
	19	"Model MRC44 Four Zone - Four Source Audio/Video Controller/Amplifier System," Xantech Corporation, 2002, 52 pages.	
	20	MOTOROLA, "Simplefi, Wireless Digital Audio Receiver, Installation and User Guide," December 31, 2001, 111 pages.	
	21	"SMPTE Made Simple: A Time Code Tutor by Timeline," 1996, 46 pages.	
	22	Network Time Protocol (NTP), RFC 1305 (Mar. 1992) (D+M_0397417-536) (120 pages).	

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	23	'NexSys Software v.3 Manual," Crest Audio, Inc., 1997, 76 pages.	
	24	NIEDERST, JENNIFER "O'Reilly Web Design in a Nutshell," Second Edition, September 2001, 678 pages.	
	25	NILSSON, M., "ID3 Tag Version 2," March 26,1998, 28 pages.	
	26	Non-Final Office Action mailed 01 May 2014, issued in connection with U.S. Patent Application No. 14/184522, filed 19 February 2014, 31 pages.	
	27	Non-Final Office Action mailed 05 December 2013, issued in connection with U.S. Patent Application No. 13/827653, filed 14 March 2013, 28 pages.	
	28	Non-Final Office Action mailed 05 January 2012, issued in connection with U.S. Patent Application No. 13/298090, filed on 16 November 2011, 40 pages.	
	29	Non-Final Office Action mailed 06 May 2014, issued in connection with U.S. Paten Application No. 13/705176, filed 05 December 2012, 23 pages.	
	30	Non-Final Office Action mailed 07 September 2016, issued in connection with U.S. Patent Application No. 13/864248, filed 17 April 2013, 12 pages.	
	31	Non-final Office Action mailed 10 April 2013, issued in connection with U.S. Patent Application No. 13/619237, filed 14 September 2012, 10 pages.	
	32	Non-Final Office Action mailed 12 May 2014, issued in connection with U.S. Patent Application No. 14/184528, filed 19 February 2014, 23 pages.	
	33	Non-Final Office Action mailed 14 May 2014, issued in connection with U.S. Patent Application No. 13/848932, filed 22 March 2013, 14 pages.	

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	34	Non-Final Office Action mailed 17 June 2014, issued in connection with U.S. Patent Application No. 14/176808, filed 10 February 2014, 6 pages.	
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	38	Non-Final Office Action mailed 19 March 2013, issued in connection with U.S. Patent Application No. 13/724048, filed 21 December 2012, 9 pages.	
	39	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.	
	40	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.	
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	44	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.	

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	Attorney Docket Number	05-0601-CON0319A

	45	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.	
	46	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.	
	47	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.	
	48	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.	
	49	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.	
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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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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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Signature	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58,443

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Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
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38	Non Patent Literature	13619237_NON-FINAL_OA_4-10-13.PDF	329715 a6fa9785976231f2d94c17bd56ae0a9f556a7175	no	10
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43	Non Patent Literature	10816217_NON-FINAL_OA_01-18-2008-V2.PDF	1135054 29609af1be86928dd60bbf2a7077f9cef802c25e	no	38
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44	Non Patent Literature	11801468_NON-FINAL_OA_04-19-2010-V2.PDF	656828 b909d4ac147ef11ca626cc53cea34740652c2e3b	no	16
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51	Non Patent Literature	13533105_NFOA_12-0402_11-25-13_19PAGES-V2.PDF	558958 d5a12561a03addd95585c5663ba4920560d8b5ec	no	19
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53	Non Patent Literature	13297000_NFOA_11-0901_2-29-12_10PAGES-V2.PDF	308631 09c8736c6a7e8685da16ec4ac67f762e6d0aa29e	no	10
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Warnings:					
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Warnings:					
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Warnings:					
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58	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_4_IDS_20190329095315.pdf	1055564 523f91d1e3544cb534e8f8339eb34d7183b80538	no	8

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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	1	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.	
	2	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.	
	3	Non-Final Office Action mailed on 23 October 2014, issued in connection with U.S. Patent Application No. 13/932864, filed on 01 July 2013, 20 pages.	
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	5	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.	
	6	Non-Final Office Action mailed on 26 July 2017, issued in connection with U.S. Patent Application No. 13/705176, filed on 05 December 2012, 14 pages.	
	7	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.	
	8	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.	
	9	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.	
	10	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.	
	11	Non-Final Office Action mailed on 29 November 2016, issued in connection with U.S. Patent Application No. 13/894179, filed on 14 May 2013, 14 pages.	

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	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	12	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.
	13	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.
	14	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.
	15	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.
	16	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.
	17	Non-Final Office Action mailed on 31 December 2013, issued in connection with U.S. Patent Application No. 13/618829, filed 14 September 2012, 26 pages.
	18	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.
	19	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.
	20	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.
	21	Notice of Allowance mailed on 01 June 2017, issued in connection with U.S. Patent Application No. 14/290493, filed on 29 May 2014, 12 pages.
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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	23	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.	
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	27	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.	
	28	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.	
	29	Notice of Allowance mailed on 02 June 2017, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 10 pages.	
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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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	36	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.	
	37	Notice of Allowance mailed on 06 September 2013, issued in connection with U.S. Patent Application No. 13/619237, filed on 14 September 2012, 10 pages.	
	38	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.	
	39	Notice of Allowance mailed on 07 December 2016, issued in connection with U.S. Patent Application No. 15/156392, filed on 17 May 2016, 9 pages.	
	40	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.	
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	42	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.	
	43	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.	
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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	45	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.	
	46	Notice of Allowance mailed on 11 April 2016, issued in connection with U.S. Patent Application No. 13/864247, filed on 17 April 2013, 21 pages.	
	47	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.	
	48	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.	
	49	Notice of Allowance mailed on 12 July 2017, issued in connection with U.S. Patent Application No. 13/894179, filed on 14 May 2013, 10 pages.	
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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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Name/Print	Michael E. Coyne	Registration Number	58,443

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Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
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Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
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26	Non Patent Literature	13848904_NOA_7-2-15.PDF	715587 33aa5e9722b9bd49354140fa23e6d189d4fdb52e	no	17
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37	Non Patent Literature	13619237_NOA_09-06-2013.PDF	477765 b0c09c98a125cfcbb78ad2cc0408cdcb3addde8c2	no	10
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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	1	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.	
	2	Non-Final Office Action mailed on 01 September 2010, issued in connection with U.S. Patent Application No. 11/147116, filed 06 June 2005, 36 pages.	
	3	Non-Final Office Action mailed on 02 November 2016, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 37 pages.	
	4	Non-Final Office Action mailed on 03 February 2009, issued in connection with U.S. Patent Application No. 11/147116, filed on 06 June 2005, 32 pages.	
	5	Non-Final Office Action mailed on 03 January 2017, issued in connection with U.S. Patent Application No. 14/808875, filed on 24 July 2015, 10 pages.	
	6	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.	
	7	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.	
	8	Non-Final Office Action mailed on 03 October 2014, issued in connection with U.S. Patent Application No. 13/863083, filed on 15 April 2013, 22 pages.	
	9	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.	
	10	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.	
	11	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.	

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	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	12	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.	
	13	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.	
	14	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.	
	15	Non-Final Office Action mailed on 07 July 2015, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 22 pages.	
	16	Non-Final Office Action mailed on 07 November 2011, issued in connection with U.S. Patent Application No. 11/147116, filed 06 June 2005, 48 pages.	
	17	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.	
	18	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.	
	19	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.	
	20	Non-Final Office Action mailed on 10 April 2017, issued in connection with U.S. Patent Application No. 13/871785, filed on 26 April 2013, 10 pages.	
	21	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.	
	22	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.	

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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	23	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.	
	24	Non-Final Office Action mailed on 11 July 2017, issued in connection with U.S. Patent Application No. 13/848921, filed on 22 March 2013, 10 pages.	
	25	Non-Final Office Action mailed on 12 January 2017, issued in connection with U.S. Patent Application No. 13/895076, filed on 15 May 2013, 10 pages.	
	26	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.	
	27	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.	
	28	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.	
	29	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.	
	30	Non-Final Office Action mailed on 15 August 2017, issued in connection with U.S. Patent Application No. 14/184522, filed on 19 February 2014, 11 pages.	
	31	Non-Final Office Action mailed on 15 July 2016, issued in connection with U.S. Patent Application No. 14/803953, filed on 20 July 2015, 20 pages.	
	32	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.	
	33	Non-Final Office Action mailed on 17 August 2017, issued in connection with U.S. Patent Application No. 14/184528, filed on 19 February 2014, 12 pages.	

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	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	34	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.	
	35	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.	
	36	Non-Final Office Action mailed on 18 January 2013, issued in connection with U.S. Patent Application No. 13/618829, filed on 14 September 2012, 58 pages.	
	37	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.	
	38	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.	
	39	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.	
	40	Non-Final Office Action mailed on 20 April 2017, issued in connection with U.S. Patent Application No. 90/013882, filed on 27 December 2016, 197 pages.	
	41	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.	
	42	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.	
	43	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.	
	44	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.	

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	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	45	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.	
	46	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.	
	47	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.	
	48	Non-Final Office Action mailed on 23 July 2018, issued in connection with U.S. Patent Application No. 15/091113, filed on 5 April 2016, 19 pages.	
	49	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.	
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	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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See attached certification statement.

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Name/Print	Michael E. Coyne	Registration Number	58,443

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International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
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Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
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9	Non Patent Literature	13871795_NON-FINAL_OA_6-4-15.PDF	513966 d0e52ff11adeef9811795be56fba251f3b0d49d9	no	16
Warnings:					
Information:					
10	Non Patent Literature	13435776_NON-FINAL_REJECTION_3-4-15.PDF	557661 9ce5827dcd39c9c60c99bdb3e4e0ea4606ff5095	no	16
Warnings:					
Information:					
11	Non Patent Literature	15089758_OA_10-04-2016.PDF	296358 22e634ab80fa6c570b7fb83572949f8591bf4540	no	9
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Information:					
12	Non Patent Literature	13864250_OA_10-05-2016.PDF	286104 26d11e968925dbb69e8ae6fd78c44b29ff8a5659	no	10
Warnings:					
Information:					
13	Non Patent Literature	13864252_OA_10-05-2016.PDF	327356 6d1d783e3105edb4e614fe933414ab9f0df84211	no	11
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Information:					
15	Non Patent Literature	14486667_NON-FINAL_OA_7-7-15.PDF	760504 81717b066ed5da96451ddfe70e3059a92819960f	no	22
Warnings:					
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16	Non Patent Literature	11147116_NFOA_05-0601_11-07-2011_48PAGES-V2.PDF	2059373 daf9d4e96572462834 95c74ceedf34e8afacec10	no	48
Warnings:					
Information:					
17	Non Patent Literature	15156392_OA_10-07-16.PDF	277731 f5f7bfd7c096c64a831d05dcb25aa54cc61b12f0	no	8
Warnings:					
Information:					
18	Non Patent Literature	13848921_OA_03-08-2016.PDF	466605 242b90a94e7520bccc2580d68b752eb8bbdb416f	no	13
Warnings:					
Information:					
19	Non Patent Literature	13871795_OA_08-09-2016.PDF	1165928 8a3081afc129991f404d6e38c532ac70b36a7085	no	31
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Information:					
20	Non Patent Literature	13871785_NON_FINAL_4-10-17_SONOS_13-0411.PDF	381199 208c53c97fd115fc79c6e5d6913dc79762363aa5	no	10
Warnings:					
Information:					
21	Non Patent Literature	12035112_NON-FINAL_OA_3-10-11.PDF	388655 3982f869da68eb1e6785c6b4d882bdcf88c54b31	no	12
Warnings:					
Information:					
22	Non Patent Literature	14504812_OA_05-10-2016.PDF	728523 cb19ae43b57dfff68a416b8672565ab6cbf054a0	no	22
Warnings:					
Information:					

23	Non Patent Literature	15243355_OA_11-10-2016.PDF	391639 8922b982e40a8f2a82a639abfd6b5be866b13754	no	11
Warnings:					
Information:					
24	Non Patent Literature	13848921_NFOA_13-0307_7-11-17_10PAGES.PDF	345351 d3c454a3de121982ad0843f7a0d2467cb3fd4b59	no	10
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Information:					
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Warnings:					
Information:					
26	Non Patent Literature	13848932_NON-FINAL_OA_6-12-15.PDF	513062 96ccb5337b8cafed96c91c39264e5f0b3513cd9e	no	16
Warnings:					
Information:					
27	Non Patent Literature	13705174_NONFINAL_OA_3-12-15.PDF	390539 d625e958cc27ee52f165ba81a22396221d690cc9	no	13
Warnings:					
Information:					
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Warnings:					
Information:					
29	Non Patent Literature	13705177_NON-FINAL_OA_3-13-15.PDF	467010 fc8c0044897ca2dffa39ea3809826e7f1ee6e51e	no	15
Warnings:					
Information:					

30	Non Patent Literature	14184522_NFOA_14-0211_8-15-17_11PAGES.PDF	342542 ce074fba777cfd30c8dfd8077caed31999b3095f	no	11
Warnings:					
Information:					
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Warnings:					
Information:					
32	Non Patent Literature	15228639_OA_11-16-2016.PDF	494094 5a400caae2d763d98e13d7f0f6ad74fc72ba2a9b	no	15
Warnings:					
Information:					
33	Non Patent Literature	14184528_NFOA_14-0213-CON_8-17-17.PDF	363843 40cff70524a939987e3e6a9f43afc4f722954fbb	no	12
Warnings:					
Information:					
34	Non Patent Literature	13864247_NON-FINAL_OA_11-17-14.PDF	344920 e8940c60a00e1b96f78ba1dd9800194ca0d14a92	no	11
Warnings:					
Information:					
35	Non Patent Literature	10861653_NON-FINAL_OA_2-18-09.PDF	652571 624420cc4c7ad7e6337846b15f9b9b6dba417595	no	18
Warnings:					
Information:					
36	Non Patent Literature	13618829_NFOA_12-0903_1-18-2013_58PAGES-V2.PDF	2798965 f86172d953a2a052bd319789350cb1f5875703f4	no	58
Warnings:					
Information:					

37	Non Patent Literature	13435739_NON-FINAL_OA_11-18-14.PDF	275007 3edfdcf99f809a59b2cd9083b4a324ec45e2bf42	no	10
Warnings:					
Information:					
38	Non Patent Literature	13533105_NON-FINAL_OA_6-19-15.PDF	1289356 8300207d63e690baa8e42f54863f97e4466e1d30	no	38
Warnings:					
Information:					
39	Non Patent Literature	13848921_NON-FINAL_OA_11-19-14.PDF	271448 6aadcec7ebbb239f7aa2cb83beab4fd803caba6f	no	9
Warnings:					
Information:					
40	Non Patent Literature	90013882_NON-FINAL_4-20-17_SONOS_04-0601-REEXAM.PDF	19509620 dc1e67884d4d6fd4b542bec001a4ff7b5138f411	no	197
Warnings:					
Information:					
41	Non Patent Literature	11906702_NF_OA_8-20-09-V2.PDF	922375 63947f5563ce0880da2ded77286442809786d8ea	no	27
Warnings:					
Information:					
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Warnings:					
Information:					
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Warnings:					
Information:					

44	Non Patent Literature	15088283_OA_09-21-2016.PDF	292615 fe5ee1941438bae3142fb17da423fbe847713 8d1	no	9
Warnings:					
Information:					
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Warnings:					
Information:					
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Warnings:					
Information:					
47	Non Patent Literature	15155149_OA_09-22-2016.PDF	237595 4a4c77a4c62cc13c9c3d5965ec2fb6a25d1e 76ec	no	7
Warnings:					
Information:					
48	Non Patent Literature	15091113_NFOA_05-0601-CON0316B_7-23-18_19PAGES.PDF	644649 2695e220d532a397303f827f1eafe90c424a 623b	no	19
Warnings:					
Information:					
49	Non Patent Literature	13705176_NON-FINAL_OA_6-23-15.PDF	1076722 bd20eb51ad8026f7b519b42758da06c87ba 8ed3f	no	30
Warnings:					
Information:					
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Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG; Joon H
Attorney Docket Number	05-0601-CON0319A

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	1	20140079242		2014-03-20	NGUYEN; Nam et al.	
	2	20140108929		2014-04-17	GARMARK; Sten [Se] et al.	
	3	20140123005		2014-05-01	FORSTALL; Scott J [Us] et al.	
	4	20140140530		2014-05-22	GOMES-CASSERES GLENN [US] et al.	
	5	20140161265		2014-06-12	CHAIKIN; Peter et al.	

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	Attorney Docket Number	05-0601-CON0319A

	6	20140181569		2014-06-26	MILLINGTON; Nicholas A.J. et al.	
	7	20140233755		2014-08-21	KIM; Kwang-Soo et al.	
	8	20140242913		2014-08-28	PANG; Hawk Yin	
	9	20140256260		2014-09-11	UEDA; Joji et al.	
	10	20140267148		2014-09-18	LUNA; Michael Edward Smith [Us] et al.	
	11	20140270202		2014-09-18	IVANOV; Plamen A. et al.	
	12	20140273859		2014-09-18	LUNA; Michael Edward Smith [Us] et al.	
	13	20140279889		2014-09-18	LUNA; Michael Edward Smith [Us] et al.	
	14	20140285313		2014-09-25	LUNA; Michael Edward Smith et al.	
	15	20140286496		2014-09-25	LUNA; Michael Edward Smith et al.	
	16	20140298174		2014-10-02	IKONOMOV; Artashes Valeryevich	

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	17	20140323036		2014-10-30	DALEY; Michael J. et al.	
	18	20140344689		2014-11-20	SCOTT; Mark David [Us] et al.	
	19	20140378056		2014-12-25	LIU; Peter T [Us] et al.	
	20	20150019670		2015-01-15	REDMANN; William Gibbens	
	21	20150026613		2015-01-22	KWON; Yunmi [Kr] et al.	
	22	20150032844		2015-01-29	TARR; Morton et al.	
	23	20150043736		2015-02-12	OLSEN; Martin et al.	
	24	20150049248		2015-02-19	WANG; Min et al.	
	25	20150074527		2015-03-12	SEVIGNY; Jonathan Christopher [Us] et al.	
	26	20150074528		2015-03-12	SAKALOWSKY; John Michael [Us] et al.	
	27	20150098576		2015-04-09	SUNDARESAN; Rameshwar et al.	

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	28	20150139210		2015-05-21	MARIN; Janne et al.	
	29	20150256954		2015-09-10	CARLSSON; Gregory Peter [Us] et al.	
	30	20150304288		2015-10-22	BALASAYGUN; Mehmet et al.	
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	1	FOUT, Tom, "Universal Plug and Play (UPnP) Client Support," Microsoft, August 2001, 18 pages.	
	2	Fries et al. "The MP3 and Internet Audio Handbook: Your Guide to the Digital Music Revolution." 2000, 320 pages.	

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	3	FULTON et al., "The Network Audio System: Make Your Application Sing (As Well As Dance)!" The X Resource, 1994, 14 pages.	
	4	GASTON et al., "Methods for Sharing Stereo and Multichannel Recordings Among Planetariums," Audio Engineering Society Convention Paper 7474, 2008, 15 pages.	
	5	General Event Notification Architecture Base: Client to Arbiter (April 2000) (23 pages).	
	6	HANS et al., "Interacting with Audio Streams for Entertainment and Communication," Proceedings of the Eleventh ACM International Conference on Multimedia, ACM, 2003, 7 pages.	
	7	HERRE et al., "The Reference Model Architecture for MPEG Spatial Audio Coding," Audio Engineering Society Convention Paper (Presented at the 118th Convention), May 28-31, 2005, 13 pages.	
	8	Home Networking with Universal Plug and Play, IEEE Communications Magazine, Vol. 39 No. 12 (December 2001) (D +M_0402025-40) (16 pages).	
	9	'Home Theater Control Systems," Cinema Source, 2002, 19 pages.	
	10	HORWITZ, Jeremy, "Logic3 i-Station25," retrieved from the internet: http://www.ilounge.com/index.php/reviews/entry/ logic3-i-station25/, last visited December 17, 2013, 5 pages.	
	11	HUANG C.M., et al., "A Synchronization Infrastructure for Multicast Multimedia at the Presentation Layer," IEEE Transactions on Consumer Electronics, 1997, pp. 370-380, Vol. 43, No. 3.	
	12	IBM Home Director Installation and Service Manual, Copyright1998, 124 pages.	
	13	IBM Home Director Owner's Manual, Copyright 1999, 67 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	14	Implicit, LLC v. Sonos, Inc. (No. 14-1330-RGA), Defendant's Original Complaint (Mar. 3, 2017) (15 pages).	
	15	Integra Audio Network Receiver NAC 2.3 Instruction Manual, 68 pages.	
	16	Integra Audio Network Server NAS 2.3 Instruction Manual, pp. 1-32.	
	17	Integra Service Manual, Audio Network Receiver Model NAC-2.3, December 2002, 44 pages.	
	18	Intel Designing a UPnP AV Media Renderer, v. 1.0 ("Intel AV Media Renderer") (May 20, 2003) (SONDM000115117-62) (46 pages).	
	19	Intel Media Renderer Device Interface ("Intel Media Renderer") (September 6, 2002) (62 pages).	
	20	Intel SDK for UPnP Devices Programming Guide, Version 1.2.1, (November 2002) (30 pages).	
	21	INTERNATIONAL BUREAU, International Preliminary Report on Patentability mailed on 08 January 2015, issued in connection with International Application No. PCT/US2013/046372, filed on 18 June 2013, 6 pages.	
	22	INTERNATIONAL BUREAU, International Preliminary Report on Patentability, mailed on 08 January 2015, issued in connection with International Application No. PCT/US2013/046386, filed on 18 June 2013, 8 pages.	
	23	INTERNATIONAL BUREAU, International Preliminary Report on Patentability mailed on 30 January 2014, issued in connection with International Application No. PCT/US2012/045894, filed on 09 July 2012, 6 pages.	
	24	INTERNATIONAL SEARCHING AUTHORITY, International Search Report mailed on 01 August 2008, in connection with International Application No. PCT/US2004/023102, 5 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	25	INTERNATIONAL SEARCHING AUTHORITY, International Search Report mailed on 26 August 2013, issued in connection with International Application No. PCT/US2013/046372, filed on 18 June 2013, 3 pages.	
	26	INTERNATIONAL SEARCHING AUTHORITY, International Search Report mailed on 26 December 2012, issued in connection with International Application No. PCT/US2012/045894, filed on 09 July 2012, 3 pages.	
	27	INTERNATIONAL SEARCHING AUTHORITY, International Search Report mailed on 30 September 2013, issued in connection with International Application No. PCT/US2013/046386, filed on 18 June 2013, 3 pages.	
	28	INTERNATIONAL SEARCHING AUTHORITY, Written Opinion mailed on 26 August 2013, issued in connection with International Application No. PCT/US2013/046372, filed on 18 June 2013, 4 pages.	
	29	INTERNATIONAL SEARCHING AUTHORITY, Written Opinion mailed on 26 December 2012, issued in connection with International Application No. PCT/US2012/045894, filed on 09 July 2012, 4 pages.	
	30	INTERNATIONAL SEARCHING AUTHORITY, Written Opinion mailed on 30 September 2013, issued in connection with International Application No. PCT/US2013/046386, filed on 18 June 2013, 6 pages.	
	31	ISHIBASHI et al., "A Comparison of Media Synchronization Quality Among Reactive Control Schemes," IEEE Infocom, 2001, pp. 77-84.	
	32	ISHIBASHI et al., "A Group Synchronization Mechanism for Live Media in Multicast Communications," IEEE Global Telecommunications Conference, 1997, pp. 746-752, Vol. 2.	
	33	ISHIBASHI et al., "A Group Synchronization Mechanism for Stored Media in Multicast Communications," IEEE Information Revolution and Communications, 1997, pp. 692-700, Vol. 2.	
	34	Issues with Mixed IEEE 802.b/802.11g Networks, AVAGO0058, Agere Systems, February 2004, 5 pages.	
	35	JAPANESE PATENT OFFICE, Decision of Rejection mailed on 08 July 2014, issued in connection with Japanese Patent Application No. 2012-178711, 3 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	36	JAPANESE PATENT OFFICE, Final Office Action mailed on 08 November 2016, issued in connection with Japanese Patent Application No. 2015-520286, 5 pages.	
	37	JAPANESE PATENT OFFICE, Notice of Rejection, mailed on 03 February 2015, issued in connection with Japanese Patent Application No. 2014-521648, 7 pages.	
	38	JAPANESE PATENT OFFICE, Notice of Rejection mailed on 15 September 2015, issued in connection with Japanese Patent Application No. 2014-220704, 7 pages.	
	39	JAPANESE PATENT OFFICE, Office Action mailed on 22 November 2016, issued in connection with Japanese Application No. 2015-520288, 6 pages.	
	40	JAPANESE PATENT OFFICE, Office Action mailed on 24 May 2016, issued in connection with Japanese Patent Application No. 2014-220704, 7 pages.	
	41	JAPANESE PATENT OFFICE, Office Action mailed on 29 March 2016, issued in connection with Japanese Patent Application No. JP2015-520288, 12 pages.	
	42	JAPANESE PATENT OFFICE, Office Action mailed on 29 November 2016, issued in connection with Japanese Application No. 2015-516169, 4 pages.	
	43	JAPANESE PATENT OFFICE, Office Action Summary mailed on 02 February 2016, issued in connection with Japanese Patent Application No. 2015-520286, 6 pages.	
	44	JAPANESE PATENT OFFICE, Office Action Summary mailed on 19 November 2013, issued in connection with Japanese Patent Application No. 2012-178711, 5 pages.	
	45	JO et al., "Synchronized One-to-many Media Streaming with Adaptive Playout Control," Proceedings of SPIE, 2002, pp. 71-82, Vol. 4861.	
	46	JONES, Stephen, "Dell Digital Audio Receiver: Digital upgrade for your analog stereo," Analog Stereo, 24 June 2000 retrieved 18 June 2014, 2 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	47	KOU et al., "RenderingControl:1 Service Template Verion 1.01," Contributing Members of the UPnP Forum, June 25, 2002, 63 pages.	
	48	Lake Processors: Lake® LM Series Digital Audio Processors Operation Manual, 2011, 71 pages.	
	49	LEVERGOOD et al., "AudioFile: A Network-Transparent System for Distributed Audio Applications," Digital Equipment Corporation, 1993, 109 pages.	
	50	LG: RJP-201M Remote Jack Pack Installation and Setup Guide, 2010, 24 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.

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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58443

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.**

Privacy Act Statement

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:

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.

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.

Electronic Acknowledgement Receipt

EFS ID:	35592462
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:14:56
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	FOUT_MICROSSOFT_CLIENT_SUPPORT_2001.PDF	2932173 94867cbaa0a48e73f38909bef719fb0e6654fea4	no	18

Warnings:

Information:					
2	Non Patent Literature	MP3_INTERNETAUDIOHANDBOOK_2000_320PAGES_PART1OF2.PDF	14183519 8155caed552e0ac091f4aacb481b1a4489d37bae	no	150
Warnings:					
Information:					
3	Non Patent Literature	MP3_INTERNETAUDIOHANDBOOK_2000_320PAGES-PART2OF2.PDF	16797286 eae1a55bbb3325f947504074d441350031201fc0	no	170
Warnings:					
Information:					
4	Non Patent Literature	FULTON_1994.PDF	14955802 8a42addee1d95283960f1ee29281968ce42490e9	no	14
Warnings:					
Information:					
5	Non Patent Literature	GASTON_2008.PDF	25429712 8f48f6bffa176f231fa3838b8f53f15ffffff2b2	no	15
Warnings:					
Information:					
6	Non Patent Literature	GENERAL_EVENT_NOTIFICATION_ARCHITECTURE_BASE_2000_23PAGES.PDF	51980 906c2b6278a8d07fdeb95cde5d9e83306e6ce288	no	23
Warnings:					
Information:					
7	Non Patent Literature	HANS_2003.PDF	283855 ba497c6f551662aa74ff886aaf5a91aaba603ce0	no	7
Warnings:					
Information:					
8	Non Patent Literature	HERRE_2005.PDF	20916066 08caa2f82218d0fe3b9a827c620f38cfaa542e33	no	13
Warnings:					
Information:					

9	Non Patent Literature	HOME_NETWORKING_DM_040 2025-40_16PAGES.PDF	9816717 d16acbc922c0684bfa987a1b5be62ed1636 5caec	no	16
Warnings:					
Information:					
10	Non Patent Literature	CINEMA_SOURCE_HOME_THE ATER_2002.PDF	3485720 7d6c8c54b1684b579238cff0eff6bd3a900fd 67a	no	19
Warnings:					
Information:					
11	Non Patent Literature	HORWITZ_REF_2013.PDF	1041654 4c8854b087257eb517c846c07539d1e9f51 0ad24	no	5
Warnings:					
Information:					
12	Non Patent Literature	HUANG_IEEETRANSCONSUMER ELECTRONICS_1997_43_370. PDF	1084328 c152a1dd1436c3f73ce7fd10a5d0fc300455 81f2	no	11
Warnings:					
Information:					
13	Non Patent Literature	IBM_HOME_DIRECTOR_INSTAL LATION_SERVICE_MANUAL_12 4PAGES.PDF	15956473 6314f1dcdf5f68d65ea8e226786d3d84300d d585	no	124
Warnings:					
Information:					
14	Non Patent Literature	IBM_HOME_DIRECTOR_OWNER S_MANUAL_67PAGES_V2.PDF	7410459 d0506d4e684288fe0f8c89202239778c7082 d2b9	no	67
Warnings:					
Information:					
15	Non Patent Literature	IMPLICITLLC_SONOSINC_ORIGI NALCOMPLAINT_15PAGES.PDF	1866770 94840942d20c1fe454f3084c794b7b2463d df5e3	no	15
Warnings:					
Information:					

16	Non Patent Literature	INTEGRA_AUDIO_NETWORK_RECEIVER_NAC2_3_INST_MANUAL.PDF	5015843 111bf628c289b93ec0460d709704c32913714139	no	68
Warnings:					
Information:					
17	Non Patent Literature	INTEGRA_AUDIO_NETWORK_SERVER_NAS2_3_INST_MANUAL.PDF	4573788 9ab726c4dd2095fb64df2a45f69048a5e584a6b2	no	32
Warnings:					
Information:					
18	Non Patent Literature	INTEGRA_SERVICE_MANUAL_NAC-23_44PAGES.PDF	5682573 7cc34eb006d3727108fb8b3c983148b32ff5ec4d	no	44
Warnings:					
Information:					
19	Non Patent Literature	INTELDESIGNING_SONDM0001115117-62_46PAGES.PDF	21487917 3818acfd58a1844f3bdcf875b8fabe056bead49c	no	46
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Information:					
20	Non Patent Literature	INTELMEDIARENDERERDEVICE_2002_62PAGES.PDF	230873 93af56f7dc27e60f1dc2bd2053b9b4b32d02c4f7	no	62
Warnings:					
Information:					
21	Non Patent Literature	INTEL_SDK_UPNP_PROGRAMMING_GUIDE_2002_30PAGES.PDF	287348 9f944b5fb8ff224578ed477d527f670591bcb16e	no	30
Warnings:					
Information:					
22	Non Patent Literature	PCTUS2013046372_IPRP_01-08-2015.PDF	240252 933fa91104ab0e5235038bfe50f0eb26bf3364a9	no	6
Warnings:					
Information:					

23	Non Patent Literature	PCTUS2013046386_INTL_PRELIMINARY_REPORT_1-8-15.PDF	308278 d483d48dbb01747b5d9fb4710b31c32aadf7ba53	no	8
Warnings:					
Information:					
24	Non Patent Literature	PCTIB2012045894_IPRP_01_30_2014.PDF	203266 7f11126a42ea767ff6a1811b6b35feb0afa162ef	no	6
Warnings:					
Information:					
25	Non Patent Literature	PCTUS2004023102_ISR_08-01-2008_5PAGES-V2.PDF	175067 21658fe9b3b1e5a3e3ab0b8e852b40eec0b0693b	no	5
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Information:					
26	Non Patent Literature	PCTUS2013046372_ISR_8-26-13_3PAGES_V2.PDF	128104 0769238d2762e920b9ee249390eda2ad4b808e63	no	3
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Information:					
27	Non Patent Literature	PCTUS2012045894_ISR_12-26-12.PDF	94148 1b81a8f19df487d09e193d7b87d8badc0f7f6a52	no	3
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Information:					
28	Non Patent Literature	PCTUS2013046372_WRITTEN_OPINION_8-26-13_4PAGES-V2.PDF	165836 f2b5bb1025b1d673c414b2acaf395d35cd76466c	no	4
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Information:					
29	Non Patent Literature	PCTUS2012045894_WO_12-26-12.PDF	99988 b7a29f654e3f813d6d525b45740c4010bb46c87e	no	4
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30	Non Patent Literature	ISHIBASHI_A_COMPARISON_OF_MEDIA_2001_8PAGES-V2.PDF	1894249 ccee33b847a24fde66fd399f584014692666a871	no	8
Warnings:					
Information:					
31	Non Patent Literature	ISHIBASHI_IEEEGLOBALTELECOMMCONF_1997_2_746.PDF	825931 bdd8f8aacd41f15aa5026386084f8f648a4c296b	no	7
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32	Non Patent Literature	ISHIBASHI_IEEEINFORMATIONREVCOMM_1997_2_692.PDF	796585 354fa7cf7b9d8a0bea4697452b433dcaec936fe1	no	9
Warnings:					
Information:					
33	Non Patent Literature	ISSUES_AVAGO0058-V2.PDF	1377564 793144f58091f94dbcf170c917620b5928427a3a	no	5
Warnings:					
Information:					
34	Non Patent Literature	JP2012-178711_DECISION_OF_REJECTION_07-08-2014-V2.PDF	82298 882e0e5ab73490dfe4f98f96794bbc4b9b9d3d15	no	3
Warnings:					
Information:					
35	Non Patent Literature	JP2015520286_FOA_11-08-2016.PDF	179629 f2bead36683aa94386ef45cd26d365a00dfcadfc	no	5
Warnings:					
Information:					
36	Non Patent Literature	JAPANESE_NO_2014-521648_REJECTION_NOTICE_2015-02-03-V2.PDF	316632 6a0630bc1eb25d14c002919312a755dde9c91a17	no	7
Warnings:					
Information:					

37	Non Patent Literature	JP2014-220704_NOTICEOFREJECTION_9-15-15.PDF	155605 4c4284e08a78c78c60e19290456dcb307dc22059	no	7
Warnings:					
Information:					
38	Non Patent Literature	JAPANESE_NO_2015-520288_OFFICE_ACTION_11-22-16.PDF	255674 d01c8753f526ab1cb1abb20c843002598e00116b	no	6
Warnings:					
Information:					
39	Non Patent Literature	JAPANESE_NO_2014-220704_OFFICE_ACTION_5-24-16.PDF	205657 ac13737727671ca89f2dba0cbc7ee7dd13ba7500	no	7
Warnings:					
Information:					
40	Non Patent Literature	PCTUS2013046386_ISR_09-30-2013_V2.PDF	128182 c6f72734ee8a1a36ff8e4c9a1ba8a2c1bea74ef0	no	3
Warnings:					
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41	Non Patent Literature	PCTUS2013046386-WRITTEN_OPINION_09-30-2013_V2.PDF	232176 7587dabb5ed76d0c2f5bf6c754d4b4813788a6c1	no	6
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Information:					
42	Non Patent Literature	JP2015520288_OA_03-29-2016.PDF	304956 5082659c564f8039e97018b78697d9b8277be286	no	12
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43	Non Patent Literature	JAPANESE_NO_2015-516169_OFFICE_ACTION_11-29-16.PDF	113875 280ee9b72c5452c5197db65d34743ea88fa8ecde	no	4
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Information:					

44	Non Patent Literature	JAPANESE_NO_2015-520286_OFFICE_ACTION_2-2-16_V2.PDF	173880 9eea259a42f3e253969f04f31376eb78933907b0	no	6
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45	Non Patent Literature	JP2012-178711_OFFICE_ACTION_SUMMARY_11-19-13-V2.PDF	145817 4a7b1bb7ac9dcc47d3bbc8f1cb2c898812d77191	no	5
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Information:					
46	Non Patent Literature	JO_PROCEEDINGSSPIE_2002_4861_71.PDF	623348 7456c250e9a0d9d14bdab77ee04ae019146d379f	no	11
Warnings:					
Information:					
47	Non Patent Literature	JONES_2000.PDF	2767920 6ae528491dacb165a4f1fea5caedb649a2843c7d	no	2
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Information:					
48	Non Patent Literature	KOU_RENDERINGCONTROL_JUNE_25_2002.PDF	6537880 8a0b7039632d8bb1148c28b89d8224415cd68db7	no	63
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49	Non Patent Literature	LAKE_SERIES_DIGITAL_2011.PDF	4370645 ebc9f43f81c5da0201e69e37a86799d91bb6d594	no	71
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50	Non Patent Literature	LEVERGOOD_1993-V2.PDF	11929228 8e9763c73298c3a088449113b0993fd96a7e61b0	no	109
Warnings:					
Information:					

51	Non Patent Literature	LG_RJP-201M_REMOTE_2010.PDF	20283650 eca9aa83452c739668fc8df7c3d64dd5aaf5ac8f	no	24
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Information:					
52	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_3_IDS_20190329095315.pdf	1056980 4e485a5eea85f9f1fb95533c90cba464ef07c75b	no	11
Warnings:					
Information:					
		Total Files Size (in bytes):	229664156		

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.

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.: 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)	
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.: 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)	
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

Philippe Bécamel

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:

- ☒ 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).

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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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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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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

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

Facsimile No. +41 22 338 82 70

Authorized officer
Kihwan Moon

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:

- ☒ 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	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).

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

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.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/23102

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

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.

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 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 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
		US 2007-0048714 A1	01/03/2007
		US 2007-0083556 A1	12/04/2007
		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
		US 8060631 B2	15/11/2011
		WO 2009-076474 A2	18/06/2009
		WO 2009-076474 A3	13/08/2009
US 2006-0143236 A1	29/06/2006	None	
US 2008-0091771 A1	17/04/2008	CN 101523495 A	02/09/2009
		CN 101997910 A	30/03/2011
		CN 101997910 B	13/03/2013
		CN101523495 B	06/04/2011
		EP 2089881 A1	19/08/2009
		EP 2089881 A4	16/01/2013
		JP 2010-507144A	04/03/2010
		KR 10-2009-0079885 A	22/07/2009
		MX 2009002806 A	31/03/2009
		WO 2008-048761 A1	24/04/2008

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	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
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.

☐ 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.

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
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: 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

☐ 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
26 DECEMBER 2012 (26.12.2012)	**26 DECEMBER 2012 (26.12.2012)**

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	JEONG, So Yeon Telephone No. 82-42-481-5656

Form PCT/ISA/210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/US2012/045894

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2008-0144864 A1	19.06.2008	AU 2004-320207 A1	08.12.2005
		EP 1749420 A1	07.02.2007
		EP 1749420 A4	15.10.2008
		WO 2005-117483 A1	08.12.2005
US 05553147 A	03.09.1996	CA 2162567 A1	24.11.1994
		CA 2162567 C	10.04.2001
		CN 1055601 C	16.08.2000
		CN 1126020 A	03.07.1996
		CN 1126020 C0	03.07.1996
		EP 0698334 A1	25.03.1998
		EP 0698334 B1	30.12.1998
		JP 02-961327 B2	06.08.1999
		JP 08-508150 A	27.08.1996
		JP 2961327 B2	12.10.1999
		KR 10-0166662 B1	01.02.1999
		WO 94-27416 A1	24.11.1994
US 2007-0003067 A1	04.01.2007	DE 10110422 A1	19.09.2002
		EP 1241797 A2	18.09.2002
		EP 1241797 A3	05.10.2005
		US 2002-0146134 A1	10.10.2002
		US 7065217 B2	20.06.2006
		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 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 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 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:

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 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.

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 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 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
		CN 101346965 A	14/01/2009
		CN 102984041 A	20/03/2013
		EP 1964365 A1	03/09/2008
		EP 1964365 B1	10/08/2011
		EP 2299654 A1	23/03/2011
		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	

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).

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Supplemental Box

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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

Continued on The Next Page

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).

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

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

Application Number	16298515
Filing Date	2019-03-11
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2447
Examiner Name	HWANG; Joon H
Attorney Docket Number	05-0601-CON0319A

U.S.PATENTS Remove

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
	1					

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020136335		2002-09-26	LIOU; Shih-Ping et al.	
	2	20020137505		2002-09-26	EICHE; Steven A. et al.	
	3	20020143998		2002-10-03	RAJAGOPAL; Priya et al.	
	4	20020150053		2002-10-17	GRAY; Donald M. et al.	
	5	20020159596		2002-10-31	DURAND; Julian et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

	6	20020163361		2002-11-07	PARKIN; Michael W.	
	7	20020165721		2002-11-07	CHANG; Kenneth H.P. et al.	
	8	20020165921		2002-11-07	SAPIEYEVSKI; Jerzy	
	9	20020168938		2002-11-14	CHANG; Chin-Chi	
	10	20020173273		2002-11-21	SPURGAT; Jeffrey Jonathan et al.	
	11	20020177411		2002-11-28	YAJIMA; Kiyoshi et al.	
	12	20020181355		2002-12-05	SHIKUNAMI; Juichi et al.	
	13	20020184310		2002-12-05	TRAVERSAT; Bernard A. et al.	
	14	20020188762		2002-12-12	TOMASSETTI; Stephen Robert et al.	
	15	20020194260		2002-12-19	HEADLEY; Kent Lawrence et al.	
	16	20020194309		2002-12-19	CARTER; Harry Nick [Us] et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

	17	20030002609		2003-01-02	FALLER; Christof et al.	
	18	20030008616		2003-01-09	ANDERSON; Lelan S.	
	19	20030014486		2003-01-16	MAY; Gregory J.	
	20	20030018797		2003-01-23	DUNNING; Ted E. et al.	
	21	20030020763		2003-01-30	MAYER; Theodore et al.	
	22	20030023741		2003-01-30	TOMASSETTI; Stephen Robert et al.	
	23	20030035072		2003-02-20	HAGG; Wilhelm	
	24	20030035444		2003-02-20	ZWACK; Eduard	
	25	20030041173		2003-02-27	HOYLE; Stephen L.	
	26	20030041174		2003-02-27	WEN; Sayling et al.	
	27	20030043856		2003-03-06	LAKANIEMI; Ari et al.	

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	28	20030043924		2003-03-06	HADDAD; Semir S. et al.	
	29	20030050058		2003-03-13	WALSH; Rod et al.	
	30	20030055892		2003-03-20	HUITEMA; Christian et al.	
	31	20030061428		2003-03-27	GARNEY; John I. et al.	
	32	20030063528		2003-04-03	OGIKUBO; Takahiko	
	33	20030063755		2003-04-03	NOURSE; James D. et al.	
	34	20030066094		2003-04-03	VAN DER SCHAAR; Auke Sjoerd et al.	
	35	20030067437		2003-04-10	MCCLINTOCK; Dale Thomas et al.	
	36	20030073432		2003-04-17	MEADE; William K.	
	37	20030097478		2003-05-22	KING; James Reynell	
	38	20030099212		2003-05-29	ANJUM; Farooq et al.	

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	39	20030099221		2003-05-29	RHEE; Sokwoo	
	40	20030101253		2003-05-29	SAITO; Takayuki et al.	
	41	20030103088		2003-06-05	ORESTI; Mauro et al.	
	42	20030109270		2003-06-12	SHORTY; Peter	
	43	20030110329		2003-06-12	HIGAKI; Nobuo et al.	
	44	20030123853		2003-07-03	IWAHARA; Yuji et al.	
	45	20030126211		2003-07-03	ANTTILA; Akseli et al.	
	46	20030135822		2003-07-17	EVANS; Glenn F.	
	47	20030157951		2003-08-21	HASTY; William V.	
	48	20030167335		2003-09-04	ALEXANDER; Bruce	
	49	20030172123		2003-09-11	POLAN; Jeffrey S. et al.	

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	50	20030179780		2003-09-25	WALKER; Anthony et al.	
	51	20030182254		2003-09-25	PLASTINA; Daniel et al.	
	52	20030185400		2003-10-02	YOSHIZAWA; Kazuhiko et al.	
	53	20030187657		2003-10-02	ERHART; George W. et al.	
	54	20030195964		2003-10-16	MANE; Pravin D.	
	55	20030198254		2003-10-23	SULLIVAN; Gary E. et al.	
	56	20030198255		2003-10-23	SULLIVAN; Gary E [Us] et al.	
	57	20030198257		2003-10-23	SULLIVAN; Gary E. et al.	
	58	20030200001		2003-10-23	GODDARD; Mark D [Us] et al.	
	59	20030204273		2003-10-30	DINKER; Darpan et al.	
	60	20030204509		2003-10-30	DINKER; Darpan et al.	

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	61	20030210796		2003-11-13	MCCARTY; William A. et al.	
	62	20030212802		2003-11-13	RECTOR; Dusty D. et al.	
	63	20030219007		2003-11-27	BARRACK; Craig et al.	
	64	20030227478		2003-12-11	CHATFIELD; Keith M.	
	65	20030229900		2003-12-11	REISMAN; Richard	
	66	20030231208		2003-12-18	HANON; Kris et al.	
	67	20030231871		2003-12-18	USHIMARU; Chikara	
	68	20030235304		2003-12-25	EVANS; Glenn F. et al.	
	69	20040001106		2004-01-01	DEUTSCHER; John et al.	
	70	20040001484		2004-01-01	OZGUNER; Tolga	
	71	20040001591		2004-01-01	MANI; Murali et al.	

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	72	20040002938		2004-01-01	DEGUCHI; Yuichiro	
	73	20040008852		2004-01-15	ALSO; Masaru et al.	
	74	20040010727		2004-01-15	FUJINAMI; Yasushi	
	75	20040012620		2004-01-22	BUHLER; Rene et al.	
	76	20040014426		2004-01-22	MOORE; Richard A.	
	77	20040015252		2004-01-22	AISO; Masaru et al.	
	78	20040019497		2004-01-29	VOLK; Andrew R. et al.	
	79	20040019807		2004-01-29	FREUND; Gregor P. et al.	
	80	20040019911		2004-01-29	GATES; Matthijs A. et al.	
	81	20040023697		2004-02-05	KOMURA; Tatsumi	
	82	20040024478		2004-02-05	HANS; Mathieu Claude et al.	

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	83	20040024925		2004-02-05	CYPHER; Robert E. et al.	
	84	20040027166		2004-02-12	MANGUM; Wayne G. et al.	
	85	20040032348		2004-02-19	LAI; Angela C. W. et al.	
	86	20040032421		2004-02-19	WILLIAMSON; Charles G. et al.	
	87	20040037433		2004-02-26	CHEN; Heng-Chien	
	88	20040041836		2004-03-04	ZANER; Melora et al.	
	89	20040042629		2004-03-04	MELLONE; Charles M. et al.	
	90	20040044742		2004-03-04	EVRON; Roni et al.	
	91	20040048569		2004-03-11	KAWAMURA; Harumi	
	92	20040059842		2004-03-25	HANSON; Mark L. et al.	
	93	20040059965		2004-03-25	MARSHALL; Kenneth R. et al.	

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	94	20040066736		2004-04-08	KROEGER; Brian William	
	95	20040075767		2004-04-22	NEUMAN; Darren et al.	
	96	20040078383		2004-04-22	MERCER; Ian Cameron et al.	
	97	20040080671		2004-04-29	SIEMENS; Duane et al.	
	98	20040093096		2004-05-13	HUANG; Steve Lan-Ping et al.	
	99	20040098754		2004-05-20	VELLA; Zane et al.	
	100	20040111473		2004-06-10	LYSENKO; Anton et al.	
	101	20040117462		2004-06-17	BODIN; William Kress et al.	
	102	20040117491		2004-06-17	KARAOGUZ; Jeyhan et al.	
	103	20040117840		2004-06-17	BOUDREAU; Paul A. et al.	
	104	20040117858		2004-06-17	BOUDREAU; Paul A. et al.	

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	105	20040128701		2004-07-01	KANEKO; Toshimitsu et al.	
	106	20040131192		2004-07-08	METCALF; Randall B.	
	107	20040133689		2004-07-08	VASISHT; Samrat [Us] et al.	
	108	20040143368		2004-07-22	MAY; Robert E. et al.	
	109	20040143852		2004-07-22	MEYERS; Philip G.	
	110	20040148237		2004-07-29	BITTMANN; Ran et al.	
	111	20040168081		2004-08-26	LADAS; Corey M. et al.	
	112	20040170383		2004-09-02	MAZUR; Leszek	
	113	20040171346		2004-09-02	LIN; John	
	114	20040177167		2004-09-09	IWAMURA; Ryuichi et al.	
	115	20040179554		2004-09-16	TSAO; Hsi-Kang	

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	116	20040183827		2004-09-23	PUTTERMAN; Daniel et al.	
	117	20040185773		2004-09-23	GERBER; Louis et al.	
	118	20040203378		2004-10-14	POWERS; Simon	
	119	20040203590		2004-10-14	SHTEYN; Eugene	
	120	20040208158		2004-10-21	FELLMAN; Ronald D. et al.	
	121	20040213230		2004-10-28	DOUSKALIS; William et al.	
	122	20040223622		2004-11-11	LINDEMANN; Eric Lee [Us] et al.	
	123	20040224638		2004-11-11	FADELL; Anthony M. et al.	
	124	20040228367		2004-11-18	MOSIG; Rudiger et al.	
	125	20040248601		2004-12-09	CHANG; Chin-Chi	
	126	20040249490		2004-12-09	SAKAI; Kenji	

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	127	20040249965		2004-12-09	HUGGINS; Guy Dwayne et al.	
	128	20040249982		2004-12-09	ARNOLD; Johann et al.	
	129	20040252400		2004-12-16	BLANK; William Thomas et al.	
	130	20040253969		2004-12-16	NGUYEN; Vu X. et al.	
	131	20050010691		2005-01-13	OYADOMARI; Randy et al.	
	132	20050011388		2005-01-20	KOUZNETSOV; Alex A.	
	133	20050013394		2005-01-20	RAUSCH; Mathias et al.	
	134	20050015551		2005-01-20	EAMES; Russell Mark et al.	
	135	20050021590		2005-01-27	DEBIQUE; Kirt A [Us] et al.	
	136	20050027821		2005-02-03	ALEXANDER; Justin et al.	
	137	20050047605		2005-03-03	LEE; Noel et al.	

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	138	20050058149		2005-03-17	HOWE; Wayne Richard	
	139	20050060435		2005-03-17	XUE; Xin et al.	
	140	20050062637		2005-03-24	EL ZABADANI; Hicham Mahmoud et al.	
	141	20050081213		2005-04-14	SUZUOKI; Masakazu et al.	
	142	20050105052		2005-05-19	MCCORMICK; Tom et al.	
	143	20050114538		2005-05-26	ROSE; Steven W.	
	144	20050120128		2005-06-02	WILLES; W. P. et al.	
	145	20050125222		2005-06-09	BROWN; Michael Wayne et al.	
	146	20050125357		2005-06-09	SAADAT; Abbas S. et al.	
	147	20050131558		2005-06-16	BRAITHWAITE; Michael et al.	
	148	20050154766		2005-07-14	HUANG; Wei-Hung et al.	

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	149	20050159833		2005-07-21	GIAIMO; Edward C. et al.	
	150	20050160270		2005-07-21	GOLDBERG; David et al.	
	151	20050166135		2005-07-28	BURKE; David G. et al.	
	152	20050168630		2005-08-04	YAMADA; Norihiko et al.	
	153	20050170781		2005-08-04	JACOBSEN; Eric A. et al.	
	154	20050177643		2005-08-11	XU; Shugong	
	155	20050181348		2005-08-18	CAREY; Tadhg M. et al.	
	156	20050195205		2005-09-08	ABRAMS; Thomas A.Jr	
	157	20050195823		2005-09-08	CHEN; Jian-Rong et al.	
	158	20050197725		2005-09-08	ALEXANDER; Jim et al.	
	159	20050198574		2005-09-08	LAMKIN; Allan B. et al.	

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	160	20050201549		2005-09-15	DEDIEU; Stephane et al.	
	161	20050215265		2005-09-29	SHARMA; Sanjeev K.	
	162	20050216556		2005-09-29	MANION; Todd R. et al.	
	163	20050239445		2005-10-27	KARAOGUZ; Jeyhan et al.	
	164	20050246421		2005-11-03	MOORE; Kevin R. et al.	
	165	20050262217		2005-11-24	NONAKA; Masao et al.	
	166	20050281255		2005-12-22	DAVIES; Trevor et al.	
	167	20050283820		2005-12-22	RICHARDS; Martin J. et al.	
	168	20050288805		2005-12-29	MOORE; Jeffrey C. et al.	
	169	20050289224		2005-12-29	DESLIPPE; Mark H. et al.	
	170	20060041639		2006-02-23	LAMKIN; Allan B [Us] et al.	

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	171	20060072489		2006-04-06	TOYOSHIMA; Akihiko	
	172	20060095516		2006-05-04	WIJERATNE; Viranga L.	
	173	20060098936		2006-05-11	IKEDA; Wataru et al.	
	174	20060119497		2006-06-08	MILLER; Kevin L. et al.	
	175	20060142034		2006-06-29	WENTINK; Menzo et al.	
	176	20060143236		2006-06-29	WU; Michael	
	177	20060155721		2006-07-13	GRUNWALD; David et al.	
	178	20060161742		2006-07-20	SUGIMOTO; Kayo et al.	
	179	20060173844		2006-08-03	ZHANG; Junbiao et al.	
	180	20060173976		2006-08-03	VINCENT; Jonathan M. et al.	
	181	20060193454		2006-08-31	ABOU-CHAKRA, RABIH. et al.	

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	182	20060222186		2006-10-05	PAIGE; Robert F. et al.	
	183	20060227985		2006-10-12	KAWANAMI; Kenichiro	
	184	20060259649		2006-11-16	HSIEH; Kuan-Hong et al.	
	185	20060270395		2006-11-30	DHAWAN; Anil K [Us] et al.	
	186	20070003067		2007-01-04	GIERL; Stefan et al.	
	187	20070022156		2007-01-25	GRUBBS; Gregory J.	
	188	20070022207		2007-01-25	MILLINGTON; Nicholas A. et al.	
	189	20070038999		2007-02-15	MILLINGTON; Nicholas A J [Us] et al.	
	190	20070043847		2007-02-22	CARTER; Harry N. et al.	
	191	20070047712		2007-03-01	GROSS; Kevin P. et al.	
	192	20070048713		2007-03-01	PLASTINA; Daniel et al.	

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	193	20070054680		2007-03-08	MO; Shaomin S. et al.	
	194	20070087686		2007-04-19	HOLM; Jukka [Fi] et al.	
	195	20070142022		2007-06-21	MADONNA; Robert P. et al.	
	196	20070142944		2007-06-21	GOLDBERG; David et al.	
	197	20070143493		2007-06-21	MULLIG; Richard M. et al.	
	198	20070169115		2007-07-19	KO; Steve et al.	
	199	20070180137		2007-08-02	RAJAPAKSE; Ravi	
	200	20070192156		2007-08-16	GAUGER; Derek K.	
	201	20070249295		2007-10-25	UKITA; Yoshitaka et al.	
	202	20070265031		2007-11-15	KOIZUMI; Michiaki [Jp] et al.	
	203	20070271388		2007-11-22	BOWRA; Todd et al.	

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	204	20070299778		2007-12-27	HAVESON; Ryan A [Us] et al.	
	205	20080002836		2008-01-03	MOELLER; Niklas et al.	
	206	20080007649		2008-01-10	BENNETT; James D.	
	207	20080007650		2008-01-10	BENNETT; James D.	
	208	20080007651		2008-01-10	BENNETT; James D.	
	209	20080018785		2008-01-24	BENNETT; James D.	
	210	20080022320		2008-01-24	VER STEEG; William C.	
	211	20080025535		2008-01-31	RAJAPAKSE; Ravi	
	212	20080072816		2008-03-27	RIESS; Walter H. et al.	
	213	20080075295		2008-03-27	MAYMAN; Avrum G. et al.	
	214	20080077619		2008-03-27	GILLEY; Glenn Gregory et al.	

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	215	20080077620		2008-03-27	GILLEY; Glenn Gregory et al.	
	216	20080086318		2008-04-10	GILLEY; Glenn Gregory et al.	
	217	20080091771		2008-04-17	ALLEN; Jeffrey L. et al.	
	218	20080120429		2008-05-22	MILLINGTON; Nicholas A.J. et al.	
	219	20080126943		2008-05-29	PARASNIS; Shashank Mohan et al.	
	220	20080144861		2008-06-19	MELANSON; John L. et al.	
	221	20080144864		2008-06-19	HUON; Graeme John [Au] et al.	
	222	20080146289		2008-06-19	KORNELUK; Jose E [Us] et al.	
	223	20080189272		2008-08-07	POWERS; Michael et al.	
	224	20080205070		2008-08-28	OSADA; Yasuo	
	225	20080212786		2008-09-04	PARK; Hae-Kwang	

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	226	20080215169		2008-09-04	DEBETTENCOURT; Lisa et al.	
	227	20080263010		2008-10-23	ROYCHOUDHURI; Subrata et al.	
	228	20080303947		2008-12-11	OHNISHI; Sunao et al.	
	229	20090011798		2009-01-08	YAMADA; Hiroshi	
	230	20090017868		2009-01-15	UEDA; Joji et al.	
	231	20090031336		2009-01-29	CHAVEZ; Timothy R. et al.	
	232	20090070434		2009-03-12	HIMMELSTEIN; Richard B.	
	233	20090089327		2009-04-02	KALABOUKIS; Chris et al.	
	234	20090100189		2009-04-16	BAHREN; Frank et al.	
	235	20090124289		2009-05-14	NISHIDA; Osamu	
	236	20090157905		2009-06-18	DAVIS; Bradford C.	

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	237	20090164655		2009-06-25	PETTERSSON; Mattias et al.	
	238	20090193345		2009-07-30	WENSLEY; Paul et al.	
	239	20090222115		2009-09-03	MALCOLM; David et al.	
	240	20090228919		2009-09-10	ZOTT; Joseph A [Us] et al.	
	241	20090251604		2009-10-08	IYER; Suraj C.	
	242	20100004983		2010-01-07	DICKERSON; Stephanie et al.	
	243	20100031366		2010-02-04	KNIGHT; Mark Stephen [Gb] et al.	
	244	20100049835		2010-02-25	KO; Steve et al.	
	245	20100087089		2010-04-08	STRUTHERS; Scott et al.	
	246	20100228740		2010-09-09	CANNISTRARO; Alan et al.	
	247	20100284389		2010-11-11	RAMSAY; Max [Au] et al.	

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	Art Unit	2447
	Examiner Name	HWANG; Joon H
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	248	20100299639		2010-11-25	RAMSAY; Max Gordon [Au] et al.	
	249	20110001632		2011-01-06	HOHORST; Andrew Gordon	
	250	20110002487		2011-01-06	PANTHER; Heiko et al.	
	251	20110066943		2011-03-17	BRILLON; Francois [Ca] et al.	
	252	20110228944		2011-09-22	CROGHAN; Frank et al.	
	253	20110316768		2011-12-29	MCRAE; Matthew Blake	
	254	20120029671		2012-02-02	MILLINGTON; Nicholas A. J. et al.	
	255	20120030366		2012-02-02	COLLART; Todd et al.	
	256	20120051567		2012-03-01	CASTOR-PERRY KENDALL.	
	257	20120060046		2012-03-08	MILLINGTON; Nicholas A. J.	
	258	20120129446		2012-05-24	KO; Steve et al.	

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	259	20120148075		2012-06-14	GOH; Aik Hee Daniel [Sg] et al.	
	260	20120185771		2012-07-19	ROTHKOPF; Fletcher R. et al.	
	261	20120192071		2012-07-26	MILLINGTON; Nicholas A. J.	
	262	20120207290		2012-08-16	MOYERS; Josh et al.	
	263	20120237054		2012-09-20	EO; Kil-Su et al.	
	264	20120281058		2012-11-08	LANEY; Alan et al.	
	265	20120290621		2012-11-15	HEITZ III; Geremy A. et al.	
	266	20130013757		2013-01-10	MILLINGTON; Nicholas A J [Us] et al.	
	267	20130018960		2013-01-17	KNYSZ; Matthew S. et al.	
	268	20130031475		2013-01-31	MAOR; Yehonatan Rafael et al.	
	269	20130038726		2013-02-14	KIM; Jin-Hyong	

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	270	20130041954		2013-02-14	KIM; Laeyoung et al.	
	271	20130047084		2013-02-21	SANDERS; Christopher John et al.	
	272	20130052940		2013-02-28	BRILLHART; David C. et al.	
	273	20130070093		2013-03-21	RIVERA; Ed et al.	
	274	20130080599		2013-03-28	KO; Steve et al.	
	275	20130094670		2013-04-18	MILLINGTON; Nicholas A. J.	
	276	20130121492		2013-05-16	VACON; Gary et al.	
	277	20130124664		2013-05-16	FONSECA Jr.; Benedito J. et al.	
	278	20130129122		2013-05-23	JOHNSON; Martin E. et al.	
	279	20130132837		2013-05-23	MEAD; Jonathan Selwyn et al.	
	280	20130159126		2013-06-20	ELKADY; Amr	

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	281	20130167029		2013-06-27	FRIESEN; Sharon E [Us] et al.	
	282	20130174100		2013-07-04	SEYMOUR; Eric T. et al.	
	283	20130174223		2013-07-04	DYKEMAN; Kim R. et al.	
	284	20130179163		2013-07-11	HERBIG; Tobias et al.	
	285	20130191454		2013-07-25	OLIVER; Michael R [Us] et al.	
	286	20130197682		2013-08-01	MILLINGTON; Nicholas A. J.	
	287	20130208911		2013-08-15	MILLINGTON; Nicholas A. J.	
	288	20130208921		2013-08-15	MILLINGTON; Nicholas A.J.	
	289	20130226323		2013-08-29	MILLINGTON; Nicholas A. J.	
	290	20130230175		2013-09-05	BECH; Soeren et al.	
	291	20130232416		2013-09-05	MILLINGTON; Nicholas A. J.	

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	292	20130253934		2013-09-26	PAREKH; Jateen P. et al.	
	293	20130279706		2013-10-24	MARTI; Stefan J [Us] et al.	
	294	20130287186		2013-10-31	QUADY; Curtis E.	
	295	20130290504		2013-10-31	QUADY; Curtis E.	
	296	20140006483		2014-01-02	GARMARK; Sten [Se] et al.	
	297	20140037097		2014-02-06	LABOSCO; Mark	
	298	20140064501		2014-03-06	OLSEN; Martin et al.	
	299	20140075308		2014-03-13	SANDERS; Christopher John [Us] et al.	
	300	20140075311		2014-03-13	BOETTCHER; Jesse William et al.	

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	2	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.	
	3	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.	
	4	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.	
	5	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.	
	6	Final Office Action mailed on 05 July 2013, issued in connection with U.S. Patent Application No. 13/618829, filed on 14 September 2012, 22 pages.	
	7	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.	
	8	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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	9	Final Office Action mailed on 08 March 2017, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 39 pages.	
	10	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.	
	11	Final Office Action mailed on 10 April 2017, issued in connection with U.S. Patent Application No. 15/243355, filed on 22 August 2016, 15 pages.	
	12	FOBER et al., "Clock Skew Compensation over a High Latency Network," Proceedings of the ICMC, 2002, pp. 548-552.	
	13	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.	
	14	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.	
	15	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.	
	16	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.	
	17	Final Office Action mailed on 11 July 2017, issued in connection with U.S. Patent Application No. 15/243186, filed on 22 August 2016, 13 pages.	
	18	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.	
	19	Final Office Action mailed on 12 January 2017, issued in connection with U.S. Patent Application No. 14/504812, filed on 02 October 2014, 25 pages.	

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	20	Final Office Action mailed on 13 December 2016, issued in connection with U.S. Patent Application No. 13/871795, filed on 26 April 2013, 41 pages.	
	21	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.	
	22	Final Office Action mailed on 14 August 2009, issued in connection with U.S. Patent Application No. 11/147116, filed 06 June 2005, 28 pages.	
	23	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.	
	24	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.	
	25	Final Office Action mailed on 15 June 2017, issued in connection with U.S. Patent Application No. 15/228639, filed on 04 August 2016, 16 pages.	
	26	Final Office Action mailed on 15 May 2017, issued in connection with U.S. Patent Application No. 13/864252, filed on 17 April 2013, 13 pages.	
	27	Final Office Action mailed on 16 March 2011, issued in connection with U.S. Patent Application No. 11/147116, filed 06 June 2005, 40 pages.	
	28	Final Office Action mailed on 16 May 2017, issued in connection with U.S. Patent Application No. 13/864249, filed on 17 April 2013, 14 pages.	
	29	Final Office Action mailed on 16 May 2017, issued in connection with U.S. Patent Application No. 13/864250, filed on 17 April 2013, 12 pages.	
	30	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.	

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	31	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.	
	32	Final Office Action mailed on 20 April 2017, issued in connection with U.S. Patent Application No. 13/864248, filed on 17 April 2013, 14 pages.	
	33	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.	
	34	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.	
	35	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.	
	36	Final Office Action mailed on 24 December 2009, issued in connection with U.S. Patent Application No. 11/147116, filed on 06 June 2005, 29 pages.	
	37	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.	
	38	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.	
	39	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.	
	40	Final Office Action mailed on 28 June 2017, issued in connection with U.S. Patent Application No. 14/808875, filed on 24 July 2015, 14 pages.	
	41	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.	

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	42	Final Office Action mailed on 31 December 2015, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 34 pages.	
	43	Final Office Action mailed on 4 February 2019, issued in connection with U.S. Patent Application No. 15/091113, filed on 5 April 2016, 23 pages.	
	44	Fireball DVD and Music Manager DVDM-100 Installation and User's Guide, Copyright 2003, 185 pages.	
	45	Fireball MP-200 User's Manual, Copyright 2006, 93 pages.	
	46	Fireball Remote Control Guide WD006-1-1, Copyright 2003, 19 pages.	
	47	Fireball SE-D1 User's Manual, Copyright 2005, 90 pages.	
	48	First Action Interview Office Action Summary mailed on 15 April 2015, issued in connection with U.S. Patent Application No. 14/505027, filed on 02 October 2014, 6 pages.	
	49	First Action Pre-Interview Office Action mailed on 22 June 2017, issued in connection with U.S. Patent Application No. 14/516883, filed on 17 October 2014, 5 pages.	

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Signature	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58443

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International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
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Warnings:					
Information:					
17	Non Patent Literature	15243186_FOA_04-0401-CON0816_7-11-17_13PAGES.PDF	426327 8512c3845d130798e13f4225bf55a4d0becd5013	no	13
Warnings:					
Information:					
18	Non Patent Literature	14184522_FINAL_OA_2-12-15.PDF	706206 868a4d9bc110b9d1c8daaf1a2c50e73e2c1d165e	no	20
Warnings:					
Information:					
19	Non Patent Literature	14504812_FOA_01-12-2017.PDF	879858 e9ee728be26ebe8e565d5dbeb3524a121cdee5cf	no	25
Warnings:					
Information:					
20	Non Patent Literature	13871795_FOA_12-13-2016.PDF	1525681 c6bc879b1f667d3e13a9c5bbfb3f283da33f8a89	no	41
Warnings:					
Information:					
21	Non Patent Literature	12035112_FINAL_OA_10-13-11.PDF	329933 ab97007eb9463e539f8c67fa35797baf773f39ea	no	10
Warnings:					
Information:					
22	Non Patent Literature	11147116_FOA_8-14-09_28PAGES.PDF	900870 1a59d6c409e3b7fa2671b581c7a625fef881541e	no	28
Warnings:					
Information:					

23	Non Patent Literature	14504812_FINAL_OA_7-15-15.PDF	623847 3f75014af5e9cc22cfbf0c619bc10e1aa1dbe387	no	18
Warnings:					
Information:					
24	Non Patent Literature	14184522_FINAL_OA_6-15-15.PDF	1039401 500960021d5c52b1643c0d46ae9b5bbbdbc1c826	no	25
Warnings:					
Information:					
25	Non Patent Literature	15228639_FOA_04-0401-CON0716_6-15-17_16PAGES.PDF	527942 7dc65e16c20f44460c585c26694f91960b8b9d56	no	16
Warnings:					
Information:					
26	Non Patent Literature	13864252_FINAL_OA_13-0406_5-15-17_13PAGES.PDF	379571 916b973616ec3b03286ac4d72158dba5b8819492	no	13
Warnings:					
Information:					
27	Non Patent Literature	11147116_FOA-3-16-11_40PAGES.PDF	1626722 1b315ac10378998bc84b1e765d18f4a43aee6816	no	40
Warnings:					
Information:					
28	Non Patent Literature	13864249_FINAL_OA_13-0402_5-16-17_14PAGES.PDF	420978 853fab5d0ec95b025ee0fcc12cf4966f8a664022	no	14
Warnings:					
Information:					
29	Non Patent Literature	13864250_FINAL_OA_13-0403_5-16-17_12PAGES.PDF	374302 5040da73e702c3745fef332ad807b37f60c6134b	no	12
Warnings:					
Information:					

30	Non Patent Literature	13533105_FINAL_OA_12-17-14.PDF	1315760 7e079cc670d11b44802ac99821e5ce2024cf8d4b	no	36
Warnings:					
Information:					
31	Non Patent Literature	13848921_FOA_10-19-2016.PDF	495386 18e08e76b8b8d651e18586da2df0ecde01c31c14	no	14
Warnings:					
Information:					
32	Non Patent Literature	13864248_FINALOA_04-20-17_13-0401.PDF	432009 def8b7599016f33a10bae1c946488afce9ff0766	no	14
Warnings:					
Information:					
33	Non Patent Literature	11906702_FOA_01-21-2010.PDF	962767 1fbea73221e6b7e15176d6edd956ce73b6e177c1	no	27
Warnings:					
Information:					
34	Non Patent Literature	14186850_FINAL_OA_10-22-14.PDF	411504 0111d963f9d3616d664239ca97e701933b9bf797	no	12
Warnings:					
Information:					
35	Non Patent Literature	13705176_FINAL_OA_10-23-14.PDF	813222 b42a6c1d63b8b79dca3450f23676273c3b7f8ed8	no	23
Warnings:					
Information:					
36	Non Patent Literature	11147116_FOA_12-24-09_29PAGES.PDF	948435 222b0be58593984bb495884d43d3051d218fa677	no	29
Warnings:					
Information:					

37	Non Patent Literature	13871795_FINAL_OA_02-24-2016.PDF	919684 56cd03882a6726c686c523c8ec17cf5163d213ea	no	28
Warnings:					
Information:					
38	Non Patent Literature	14290493_FOA_05-25-2016.PDF	1162014 ea36c86a5acba6cdb9b991f02998f3bd6571998f	no	33
Warnings:					
Information:					
39	Non Patent Literature	14186850_FINAL_OA_4-28-15.PDF	709014 d9e9dbd6b72a32d09fbed664a38c47e275cf7138	no	20
Warnings:					
Information:					
40	Non Patent Literature	14808875_FOA_13-0506-CON0715_6-28-17_14PAGES.PDF	491764 f8ab1e33fef2fa825bf83ab3d3d5a9e7b037cbbb	no	14
Warnings:					
Information:					
41	Non Patent Literature	13871795_FINAL_OA_11-30-15.PDF	843634 27ea94cfdb19d9f83ccdb0a0ada6f93666c36c64	no	26
Warnings:					
Information:					
42	Non Patent Literature	14486667_FINAL_OA_12-31-15.PDF	1184596 412619bbbd3a95f865dbdb5972ffe3345e883c4b	no	34
Warnings:					
Information:					
43	Non Patent Literature	15091113_FOA_05-0601-CON0316B_2-4-19_23PAGES.PDF	948376 d06fe1506f7fcabb5cf2d04932431b8dd1e7abb1	no	23
Warnings:					
Information:					

44	Non Patent Literature	FIREBALL_DVDM-100_INSTALLATION_USERS_GUIDE_185PAGES_V2.PDF	14991875 62c990583fe44c169bc315443349f8abc3074da7	no	185
Warnings:					
Information:					
45	Non Patent Literature	FIREBALL_MP-200_93PAGES_V2.PDF	5549797 1cb0b7a1f1ebb3e3579753e88e4b00016e335e04	no	93
Warnings:					
Information:					
46	Non Patent Literature	FIREBALL_WD006-1-1_19PAGES.PDF	2218426 8de029e07206394b2f18b98a273e60ca259bdc48	no	19
Warnings:					
Information:					
47	Non Patent Literature	FIREBALL_SE-D1_USERS_MANUAL_90PAGES-V2.PDF	5386467 bfef43f6b10b2a0a1ee1e428cf2674521a6da52e	no	90
Warnings:					
Information:					
48	Non Patent Literature	14505027_OA_FIRSTACTION_04-15-2015.PDF	287523 d8dc39ae1d02f5a859d0de8dc489678b544b5a12	no	6
Warnings:					
Information:					
49	Non Patent Literature	14516883_PREINTERVIEW_FIRST_ACTION_04-0401-CON1014C_5PAGES.PDF	172625 780b8c6a0b37e2b3fabe35d0e4fd741153cceefe	no	5
Warnings:					
Information:					
50	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_2_IDS_20190329095315.pdf	1062685 34bf9863a7b51acfc1ad277888124f18c2c78fa1	no	35
Warnings:					
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		Total Files Size (in bytes):	66650225		

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U.S.PATENTS Remove

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
	1	RE41608		2010-08-31	BLAIR; Christopher Douglas et al.	
	2	D260764	S	1981-09-15	CASTAGNA; John F. et al.	
	3	D279779	S	1985-07-23	TAYLOR; Terrance N.	
	4	D293671	S	1988-01-12	BEAUMONT; Thomas G.	
	5	D301037	S	1989-05-09	MATSUDA; Hari	
	6	D304443	S	1989-11-07	GRINYER; Clive A. et al.	
	7	D313023	S	1990-12-18	KOLENDA; David F. et al.	
	8	D313398	S	1991-01-01	GILCHRIST; Thomas L.	

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	9	D313600	S	1991-01-08	WEBER; Edward W.	
	10	D320598	S	1991-10-08	AUERBACH; Marc et al.	
	11	D322609	S	1991-12-24	PATTON; Douglas M.	
	12	D326450	S	1992-05-26	WATANABE; Katsuhito	
	13	D327060	S	1992-06-16	WACHOB; David E. et al.	
	14	D331388	S	1992-12-01	DAHNERT; Dean L. et al.	
	15	D333135	S	1993-02-09	WACHOB; David E. et al.	
	16	D350531	S	1994-09-13	TSUJI; Masao	
	17	D350962	S	1994-09-27	REARDON; John D. et al.	
	18	D354059	S	1995-01-03	HENDRICKS; John S.	
	19	D354751	S	1995-01-24	HERSH; Joseph B. et al.	

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	20	D356093	S	1995-03-07	MCCAULEY; Gilbert L. et al.	
	21	D356312	S	1995-03-14	ALTHANS; Richard K.	
	22	D357024	S	1995-04-04	TOKIYAMA; Masaru et al.	
	23	D362446	S	1995-09-19	GASIOREK; John G. et al.	
	24	D363933	S	1995-11-07	STARCK; Philippe	
	25	D364877	S	1995-12-05	TOKIYAMA; Masaru et al.	
	26	D364878	S	1995-12-05	GREEN; Dewayne E. et al.	
	27	D365102	S	1995-12-12	GIOSCIA; Richard	
	28	D366044	S	1996-01-09	HARA; Masayuki et al.	
	29	D372716	S	1996-08-13	THORNE; Edwin	
	30	D377651	S	1997-01-28	BIASOTTI; Mark et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	31	D379816	S	1997-06-10	LAITURI; David W. et al.	
	32	D380752	S	1997-07-08	HANSON; Bruce D.	
	33	D382271	S	1997-08-12	AKWIWU; Ndukwe	
	34	D384940	S	1997-10-14	KONO; Kenichiro et al.	
	35	D387352	S	1997-12-09	KANEKO; Steven T. et al.	
	36	D388792	S	1998-01-06	NYKERK; Michael	
	37	D389143	S	1998-01-13	WICKS; James E.	
	38	D392641	S	1998-03-24	FENNER; Knut T.	
	39	D393628	S	1998-04-21	LEDBETTER; Carl J. et al.	
	40	D394659	S	1998-05-26	BIASOTTI; Mark et al.	
	41	D395889	S	1998-07-07	GERBA; George et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	42	D397996	S	1998-09-08	SMITH; Michael A.	
	43	D401587	S	1998-11-24	RUDOLPH; Daniel L.	
	44	D404741	S	1999-01-26	SCHUMAKER; Nevenka et al.	
	45	D405071	S	1999-02-02	GAMBARO; Thomas L.	
	46	D406847	S	1999-03-16	GERBA; George et al.	
	47	D407071	S	1999-03-23	KEATING; Virginia Walker	
	48	D410927	S	1999-06-15	YAMAGISHI; Yoshinobu	
	49	D412337	S	1999-07-27	HAMANO; Masataka	
	50	D415496	S	1999-10-19	GERBA; George et al.	
	51	D416021	S	1999-11-02	GODETTE; Robert G. et al.	
	52	D420006	S	2000-02-01	TONINO; Eduardus Josephus Anna Maria	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	53	D429246	S	2000-08-08	HOLMA; Tapani	
	54	D430143	S	2000-08-29	RENK; Thomas Edward	
	55	D431552	S	2000-10-03	BACKS; Jochen Philipp et al.	
	56	D432525	S	2000-10-24	BEECROFT; Troy C.	
	57	D444475		2001-07-03	LEVEY; Keith P. et al.	
	58	D444475		2001-07-03	LEVEY; Keith P. et al.	
	59	D452520		2001-12-25	GOTHAM; David R. et al.	
	60	D462339		2002-09-03	ALLEN; Paul G. et al.	
	61	D462340		2002-09-03	ALLEN; Paul G. et al.	
	62	D462945		2002-09-17	SKULLEY; Gerald W.	
	63	D466108		2002-11-26	GLODAVA; Derrick A. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	64	D468297		2003-01-07	IKEDA; Tetsuya	
	65	D474763		2003-05-20	TOZAKI; Ray et al.	
	66	D475993		2003-06-17	MEYER; Robert K.	
	67	D476643		2003-07-01	YAMAGISHI; Masayuki	
	68	D477310		2003-07-15	MORANSAIS; Charles	
	69	D478051		2003-08-05	SAGAWA; So	
	70	D478069		2003-08-05	BECK; Benjamin et al.	
	71	D478896		2003-08-26	SUMMERS; Kim Renee	
	72	D479520		2003-09-09	DE; Saulles Stephen	
	73	D481056		2003-10-21	KAWASAKI; Mugio et al.	
	74	D486145		2004-02-03	KAMINSKI; Dariusz S. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	75	D491925		2004-06-22	GRIESAU; Gene W. et al.	
	76	D493148		2004-07-20	SHIBATA; Kumiko et al.	
	77	D495333		2004-08-31	BORSBOOM; Antonious M.	
	78	D496003		2004-09-14	SPIRA; Joel S.	
	79	D496005		2004-09-14	WANG; Carter	
	80	D496335		2004-09-21	SPIRA; Joel S.	
	81	D497363		2004-10-19	OLSON; Mark H. et al.	
	82	D499086		2004-11-30	POLITO; Fred	
	83	D499395		2004-12-07	HSU; Gary	
	84	D499718		2004-12-14	CHEN; Alex	
	85	D500015		2004-12-21	GUBBE; Bernd	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	86	D501477		2005-02-01	HALL; David	
	87	D504872		2005-05-10	UEHARA; Mitsuhiro et al.	
	88	D504885		2005-05-10	ZHANG; Jinsong et al.	
	89	D506463		2005-06-21	DANIELS; Wilfried Johan Paul Ferdinand	
	90	D515072		2006-02-14	LEE; Nikolas Ian	
	91	D515557		2006-02-21	OKULEY; James M.	
	92	D518475		2006-04-04	YANG; Yu-Ching et al.	
	93	D524296		2006-07-04	KITA; Toshiyuki	
	94	D527375		2006-08-29	FLORA; William T. et al.	
	95	3956591		1976-05-11	GATES Jr.; ,William A.	
	96	4105974		1978-08-08	ROGERS; Edwin F.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
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	97	4296278		1981-10-20	CULLISON; Steven B. et al.	
	98	4306114		1981-12-15	CALLAHAN; Jeffery C.	
	99	4509211		1985-04-02	ROBBINS; Michael S.	
	100	4530091		1985-07-16	CROCKETT; Gary B.	
	101	4696037		1987-09-22	FIERENS; Gustaaf E. M.	
	102	4701629		1987-10-20	CITROEN; Maxime H.	
	103	4712105		1987-12-08	KOEHLER; Hans E. P.	
	104	4731814		1988-03-15	BECKER; William R. et al.	
	105	4816989		1989-03-28	FINN; Alan M. et al.	
	106	4824059		1989-04-25	BUTLER; Les I.	
	107	4845751		1989-07-04	SCHWAB; Brian H.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	108	4994908		1991-02-19	KUBAN; Curt M. et al.	
	109	5086385		1992-02-04	LAUNEY; Reuel O. et al.	
	110	5151922		1992-09-29	WEISS; Karl R.	
	111	5153579		1992-10-06	FISCH; Kenneth D. et al.	
	112	5182552		1993-01-26	PAYNTING; Richard J.	
	113	5185680		1993-02-09	KAKUBO; Yuji	
	114	5198603		1993-03-30	NISHIKAWA; Masashi et al.	
	115	5237327		1993-08-17	SAITOH; Mitsumasa et al.	
	116	5239458		1993-08-24	SUZUKI; Takashi	
	117	5272757		1993-12-21	SCOFIELD; William C. et al.	
	118	5299266		1994-03-29	LUMSDEN; John L.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	119	5361381		1994-11-01	SHORT; William R.	
	120	5372441		1994-12-13	LOUIS; William M.	
	121	5406634		1995-04-11	ANDERSON; Charles W [Us] et al.	
	122	5430485		1995-07-04	LANKFORD; Douglas E. et al.	
	123	5440644		1995-08-08	FARINELLI; Robert [Us] et al.	
	124	5457448		1995-10-10	TOTSUKA; Keiichi et al.	
	125	5467342		1995-11-14	LOGSTON; Gary L. et al.	
	126	5481251		1996-01-02	BUYS; Menno et al.	
	127	5491839		1996-02-13	SCHOTZ; Larry	
	128	5515345		1996-05-07	BARREIRA; Jeane K. et al.	
	129	5533021		1996-07-02	BRANSTAD; Mark W. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	130	5553147		1996-09-03	PINEAU; Joseph E. M.	
	131	5553222		1996-09-03	MILNE; Steve H. et al.	
	132	5553314		1996-09-03	GRUBE; Gary W. et al.	
	133	5596696		1997-01-21	TINDELL; James M. et al.	
	134	5602992		1997-02-11	DANNEELS; Gunner	
	135	5623483		1997-04-22	AGRAWAL; Prathima et al.	
	136	5625350		1997-04-29	FUKATSU; Hitoshi et al.	
	137	5633871		1997-05-27	BLOKS; Rudolf H. J.	
	138	5636345		1997-06-03	VALDEVIT; Ezio	
	139	5640388		1997-06-17	WOODHEAD; Douglas F. et al.	
	140	5652749		1997-07-29	DAVENPORT; David William et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	141	5661665		1997-08-26	GLASS; Adam et al.	
	142	5661728		1997-08-26	FINOTELLO; Andrea et al.	
	143	5668884		1997-09-16	CLAIR Jr.; Roy Barry et al.	
	144	5673323		1997-09-30	SCHOTZ; Larry et al.	
	145	5696896		1997-12-09	BADOVINATZ; Peter Richard et al.	
	146	5726989		1998-03-10	DOKIC; Miroslav V.	
	147	5732059		1998-03-24	KATSUYAMA; Akira et al.	
	148	5740235		1998-04-14	LESTER; James William et al.	
	149	5742623		1998-04-21	NUBER; Ray et al.	
	150	5751819		1998-05-12	DORROUGH; Michael L.	
	151	5761320		1998-06-02	FARINELLI; Robert et al.	

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	152	5774016		1998-06-30	KETTERER; Ernest R.	
	153	5787249		1998-07-28	BADOVINATZ; Peter Richard et al.	
	154	5790543		1998-08-04	CLOUTIER; Leo	
	155	5808662		1998-09-15	KINNEY; Daniel Reid et al.	
	156	5812201		1998-09-22	YOO; Ki Ryung	
	157	5815689		1998-09-29	SHAW; George H. J. et al.	
	158	5818948		1998-10-06	GULICK; Dale E.	
	159	5832024		1998-11-03	SCHOTZ; Larry et al.	
	160	5838909		1998-11-17	ROY; H. Scott et al.	
	161	5848152		1998-12-08	SLIPY; Michael J. et al.	
	162	5852722		1998-12-22	HAMILTON; Graham	

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	163	5867691		1999-02-02	SHIRAISHI; Hajime	
	164	5875233		1999-02-23	COX; Daniel R.	
	165	5875354		1999-02-23	CHARLTON; Paul et al.	
	166	5887143		1999-03-23	SAITO; Masahiko et al.	
	167	5905768		1999-05-18	MATURI; Greg et al.	
	168	5917830		1999-06-29	CHEN; David et al.	
	169	5923869		1999-07-13	KASHIWAGI; Yoshiichiro et al.	
	170	5923902		1999-07-13	INAGAKI; Yoshihiro	
	171	5946343		1999-08-31	SCHOTZ; Larry et al.	
	172	5956025		1999-09-21	GOULDEN; Lorna et al.	
	173	5956088		1999-09-21	SHEN; Paul et al.	

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	174	5960006		1999-09-28	MATURI; Greg et al.	
	175	5984512		1999-11-16	JONES; Anthony Mark et al.	
	176	5987525		1999-11-16	ROBERTS; Dale Tyson et al.	
	177	5987611		1999-11-16	FREUND; Gregor	
	178	5990884		1999-11-23	DOUMA; Peter et al.	
	179	5991307		1999-11-23	KOMURO; Teruyoshi et al.	
	180	5999906		1999-12-07	MERCS; Laura et al.	
	181	6009457		1999-12-28	MOLLER; Matthew Donaldson	
	182	6018376		2000-01-25	NAKATANI; Shintarou	
	183	6026150		2000-02-15	FRANK; Edward H. et al.	
	184	6029196		2000-02-22	LENZ; Michael A.	

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	185	6031818		2000-02-29	LO; W. Steven et al.	
	186	6032202		2000-02-29	LEA; Rodger J [Us] et al.	
	187	6038614		2000-03-14	CHAN; Rix S. et al.	
	188	6046550		2000-04-04	FERENCE; Jonathan H. et al.	
	189	6061457		2000-05-09	STOCKHAMER; Lee	
	190	6078725		2000-06-20	TANAKA; Mitsumasa	
	191	6081266		2000-06-27	SCIAMMARELLA; Eduardo	
	192	6088063		2000-07-11	SHIBA; Kosuke	
	193	6101195		2000-08-08	LYONS; Paul Wallace et al.	
	194	6108485		2000-08-22	KIM; Jeong-Kyu	
	195	6108686		2000-08-22	WILLIAMS Jr.; ,Henry R.	

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	196	6122668		2000-09-19	TENG; Peter Y. et al.	
	197	6127941		2000-10-03	VAN RYZIN; John M.	
	198	6128318		2000-10-03	SATO; Takashi	
	199	6148205		2000-11-14	COTTON; Timothy R.	
	200	6154772		2000-11-28	DUNN; Bryan W. et al.	
	201	6157957		2000-12-05	BERTHAUD; Jean-Marc	
	202	6163647		2000-12-19	TERASHIMA; Masaru et al.	
	203	6169725		2001-01-02	GIBBS; Simon J. et al.	
	204	6175872		2001-01-16	NEUMANN; Eric K. et al.	
	205	6181383		2001-01-30	FOX; Edward C. et al.	
	206	6185737		2001-02-06	NORTHCUTT; J. Duane et al.	

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	207	6195435		2001-02-27	KITAMURA; John S.	
	208	6195436		2001-02-27	SCIBORA; Marco et al.	
	209	6199169		2001-03-06	VOTH; Duane J.	
	210	6212282		2001-04-03	MERSHON; Stuart	
	211	6246701		2001-06-12	SLATTERY; William	
	212	6253293		2001-06-26	RAO; Raghunath et al.	
	213	6255961		2001-07-03	VAN; Ryzin John M [Us] et al.	
	214	6256554		2001-07-03	DILORENZO; Mark	
	215	6269406		2001-07-31	DUTCHER; David Paul et al.	
	216	6301012		2001-10-09	WHITE; Craig R. et al.	
	217	6308207		2001-10-23	TSENG; Weinan William et al.	

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	218	6310652		2001-10-30	LI; Stephen et al.	
	219	6313879		2001-11-06	KUBO; Hiroaki et al.	
	220	6321252		2001-11-20	BHOLA; Sumeer et al.	
	221	6324586		2001-11-27	JOHNSON; Aric R.	
	222	6332147		2001-12-18	MORAN; Thomas P. et al.	
	223	6343028		2002-01-29	KUWAOKA; Toshiharu	
	224	6349285		2002-02-19	LIU; Pu et al.	
	225	6349339		2002-02-19	WILLIAMS; Henry R.	
	226	6349352		2002-02-19	LEA; Rodger J.	
	227	6351821		2002-02-26	VOTH; Duane J.	
	228	6353172		2002-03-05	FAY; Todor C. et al.	

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	229	6356871		2002-03-12	HEMKUMAR; Nariankadu Datatreya et al.	
	230	6404811		2002-06-11	CVETKO; John F. et al.	
	231	6418150		2002-07-09	STAATS; Erik P.	
	232	6430353		2002-08-06	HONDA; Susumu et al.	
	233	6442443		2002-08-27	FUJII; Kazuo et al.	
	234	6446080		2002-09-03	VAN; Ryzin John M. et al.	
	235	6449642		2002-09-10	BOURKE-DUNPHY ERIN MARIE . et al.	
	236	6449653		2002-09-10	KLEMETS; Anders Edgar et al.	
	237	6456783		2002-09-24	ANDO; Hideo et al.	
	238	6463474		2002-10-08	FUH; Tzong-Fen et al.	
	239	6466832		2002-10-15	ZUQERT; Benjamin et al.	

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	240	6469633		2002-10-22	WACHTER; Martin Richard [Us] et al.	
	241	6487296		2002-11-26	ALLEN; Steven W. et al.	
	242	6493832		2002-12-10	ITAKURA; Eisaburo et al.	
	243	6522886		2003-02-18	YOUNGS; Edward A. et al.	
	244	6526325		2003-02-25	SUSSMAN; Robert et al.	
	245	6526411		2003-02-25	WARD; Sean	
	246	6535121		2003-03-18	MATHNEY; Richard K. et al.	
	247	6587127		2003-07-01	LEEKE; Steven D. et al.	
	248	6598172		2003-07-22	VANDEUSEN; Mark P. et al.	
	249	6611537		2003-08-26	EDENS; Glenn T. et al.	
	250	6611813		2003-08-26	BRATTON; Timothy Robert	

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	251	6631410		2003-10-07	KOWALSKI; John Michael [Us] et al.	
	252	6636269		2003-10-21	BALDWIN; James A.	
	253	6639584		2003-10-28	LI; Chuang	
	254	6653899		2003-11-25	ORGANVIDEZ; Juan H. et al.	
	255	6654720		2003-11-25	GRAHAM; Stephen Glen et al.	
	256	6654956		2003-11-25	TRINH; Vincent et al.	
	257	6658091		2003-12-02	NAIDOO; Surendra N. et al.	
	258	6674803		2004-01-06	KESSELRING; William David	
	259	6684060		2004-01-27	CURTIN; Steven D.	
	260	6687664		2004-02-03	SUSSMAN; Robert et al.	
	261	6704421		2004-03-09	KITAMURA; John S.	

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	262	6741961		2004-05-25	LIM; Chae-Duck	
	263	6757517		2004-06-29	CHANG; Chin-Chi [Tw] et al.	
	264	6763274		2004-07-13	GILBERT; Erik J.	
	265	6778073		2004-08-17	LUTTER; Robert Pierce et al.	
	266	6778493		2004-08-17	ISHII; Atsushi	
	267	6778869		2004-08-17	CHAMPION; Mark	
	268	6795852		2004-09-21	KLEINROCK; Leonard et al.	
	269	6803964		2004-10-12	POST; Lauren Lee et al.	
	270	6809635		2004-10-26	KAARESOJA; Topi	
	271	6816510		2004-11-09	BANERJEE; Subrata	
	272	6816818		2004-11-09	WOLF; Michael Jaochim et al.	

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	273	6823225		2004-11-23	SASS; Jonathan	
	274	6826283		2004-11-30	WHEELER; Thomas M. et al.	
	275	6836788		2004-12-28	KIM; Sang-Gil et al.	
	276	6839752		2005-01-04	MILLER; Robert et al.	
	277	6859460		2005-02-22	CHEN; Michael C.	
	278	6859538		2005-02-22	VOLTZ; Christopher	
	279	6873862		2005-03-29	RESHEFSKY; Marc Alan	
	280	6882335		2005-04-19	SAARINEN; Pertti	
	281	6898642		2005-05-24	CHAFLE; Girish Bhimrao et al.	
	282	6901439		2005-05-31	BONASIA; Gaetano et al.	
	283	6907458		2005-06-14	TOMASSETTI; Stephen Robert et al.	

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	284	6910078		2005-06-21	RAMAN; Suchitra et al.	
	285	6912610		2005-06-28	SPENCER; Thomas Vincent	
	286	6915347		2005-07-05	HANKO; James G. et al.	
	287	6917592		2005-07-12	RAMANKUTTY; Rajesh et al.	
	288	6919771		2005-07-19	NAKAJIMA; Kouji	
	289	6920373		2005-07-19	XI; Ning et al.	
	290	6931557		2005-08-16	TOGAWA; Yoshifusa	
	291	6934766		2005-08-23	RUSSELL; Paul J.	
	292	6937988		2005-08-30	HEMKUMAR; Nariankadu Datatreya et al.	
	293	6970482		2005-11-29	KIM; Sung-Tae	
	294	6985694		2006-01-10	DE BONET; Jeremy S. et al.	

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	295	6987767		2006-01-17	SAITO; Tatsunori	
	296	7006758		2006-02-28	YAMAMOTO; Kaoru et al.	
	297	7007106		2006-02-28	FLOOD; Mark et al.	
	298	7020791		2006-03-28	AWEYA; James et al.	
	299	7043477		2006-05-09	MERCER; Ian Cameron et al.	
	300	7043651		2006-05-09	AWEYA; James et al.	

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	1	2320451	CA	A1	2001-03-23	BONNEVILLE MARC ETIENNE [CA]		
	2	101292500	CN	A	2008-10-22	SONY ERICSSON MOBILE COMM AB.		
	3	1598767	CN	A	2005-03-23	XIAO XUEWEN.		
	4	0251584	EP	A2	1988-01-07	NORTHERN TELECOM LTD.		
	5	0672985	EP	A1	1995-09-20	INTERNATIONAL BUSINESS MACHINES.		
	6	0742674	EP	B1	2014-04-09	TOSHIBA KK [JP]		
	7	0772374	EP	A2	1997-05-07	BANG & OLUFSEN AS.		
	8	0895427	EP	A3	2006-01-18	SONY ELECTRONICS INC.		
	9	1111527	EP	A2	2001-06-27	KABUSHIKI KAISHA TOSHIBA.		
	10	1122931	EP	A2	2001-08-08	SHARP KABUSHIKI KAISHA.		
	11	1312188	EP	A1	2003-05-21	BRITISH TELECOMM [GB]		

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	12	1389853	EP	A1	2004-02-18	SONY INT EUROPE GMBH.		
	13	1410686	EP		2008-03-26	DOLBY LAB LICENSING CORPORATION.		
	14	1416687	EP	B1	2006-08-02	AVID TECHNOLOGY, INC.		
	15	1517464	EP	A2	2005-03-23	PHOENIX GOLD INTERNATIONAL INC.		
	16	2043381	EP	A2	2009-04-01	BANG & OLUFSEN AS.		
	17	2161950	EP	A2	2010-03-10	BANG & OLUFSEN AS.		
	18	2591617	EP	B1	2014-06-18	BANG & OLUFSEN AS.		
	19	2713281	EP		2004-04-02	SONOS, INC.		
	20	2284327	GB	A	1995-05-31	INTEL CORPORATION.		
	21	2338374	GB		1999-12-15	MOTOROLA LTD.		
	22	2379533	GB	A	2003-03-12	REQUEST MULTIMEDIA [US]		

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	23	2486183	GB		2012-06-13	CAMBRIDGE SILICON RADIO LIMITED.		
	24	07-210129	JP		1995-08-11	INTERNAT'L BUSINESS MACH CORP (IBM)		
	25	2000149391	JP	A	2000-05-30	VICTOR COMPANY OF JAPAN.		
	26	2001034951	JP		2001-02-09	SANYO ELECTRIC CO.		
	27	2002111817	JP		2002-04-12	NEC CORP.		
	28	2002123267	JP	A	2002-04-26	SONY CORP.		
	29	2002358241	JP	A	2002-12-13	VICTOR COMPANY OF JAPAN.		
	30	2003037585	JP		2003-02-07	SONY CORP.		
	31	2003101958	JP		2003-04-04	TOSHIBA CORP.		
	32	2003169089	JP	A	2003-06-13	ANCL INC., et al.		
	33	2003506765	JP	A	2003-02-18	CHUNG; Randall M.		

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	34	2005108427	JP		2005-04-21	RICOH KK.		
	35	2005136457	JP		2005-05-26	SANYO ELECTRIC CO. LTD.		
	36	2007241652	JP	A	2007-09-20	CORE COLORS INC.		
	37	2009075540	JP	A	2009-04-09	TOUCHTUNES MUSIC CORP.		
	38	2009135750	JP		2009-06-18	KYOCERA CORP.		
	39	2009506603	JP	A	2009-02-12	SONY ERICSSON MOBILE COMMUNICATIONS AB.		
	40	2009535708	JP		2009-10-01	MICROSOFT CORPORATION.		
	41	2009538006	JP	A	2009-10-29	SONY ERICSSON MOBILE COMMUNICATIONS AB.		
	42	2011130496	JP		2011-06-30	TOSHIBA CORP.		
	43	63269633	JP		1988-11-07	UNKNOWN.		
	44	439027	TW		2001-06-07	MITAC TECHNOLOGY CORP.		

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	45	0019693	WO	A1	2000-04-06	WIRELESS SYSTEM TECHNOLOGIES I [CA], et al.		
	46	0110125	WO	A1	2001-02-08	CHUNG, RANDALL M.		
	47	02073851	WO		2002-09-19	PULSE-LINK, INC.		
	48	03093950	WO	A2	2003-11-13	GOLDBERG DAVID [US], et al.		
	49	199525313	WO		1995-09-21	INTERNATIONAL BUSINESS MACHINE CORPORATION.		
	50	1999023560	WO		1999-05-14	COLLABORATION PROPERTIES, INC.		

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	Attorney Docket Number	05-0601-CON0319A

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16298515
	Filing Date	2019-03-11
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

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	/Michael E. Coyne/	Date (YYYY-MM-DD)	2019-04-01
Name/Print	Michael E. Coyne	Registration Number	58443

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.**

Privacy Act Statement

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:

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.

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.

Electronic Acknowledgement Receipt	
EFS ID:	35584952
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Michael E. Coyne
Filer Authorized By:	
Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	04-APR-2019
Filing Date:	11-MAR-2019
Time Stamp:	17:07:08
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	CA2320451A1.PDF	2348016 886d48985fac09d9e164460844f6ffb62cbae8d3	no	61
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Information:					
2	Foreign Reference	CN101292500A.PDF	1601396 6f657a01929ebdf1dc7a0c4073a4c485b75e835a	no	27
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33	Foreign Reference	JP2003506765.PDF	2102143 28262bc3a8cb4c09b8b12c5eb5a6a3609d9297b6	no	46
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36	Foreign Reference	JP2007241652A.PDF	757694 b11416f3d9a7b4362836f219a73539d2234a7da8	no	19
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39	Foreign Reference	JP2009506603.PDF	1735260 c271278bf877a4edd6299ffa3ca942efd1b82069	no	26
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41	Foreign Reference	JP2009538006A.PDF	780949 58eb6213f43d027560b2f620c1b0c79f46fff66c	no	32
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51	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_0_IDS_20190329095315.pdf	1063390 afd2c166b6a8428ff8ccca8364a0a8b2afac228d	no	36
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			Total Files Size (in bytes):	135345101	

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/298,515	03/11/2019	Nicholas A.J. Millington	05-0601-CON0319A	7686

135176 7590 04/03/2019

LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

EXAMINER	
HWANG, JOON H	

ART UNIT	PAPER NUMBER
2451	

NOTIFICATION DATE	DELIVERY MODE
04/03/2019	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ls3_docketing@cardinal-ip.com
york@ls3ip.com

Decision Granting Request for Prioritized Examination (Track I)	**Application No.** 16/298,515	**Applicant(s)** Millington et al.	
	Examiner CHERYL P GIBSON BAYLOR	**Art Unit** OPET	**AIA (First Inventor to File) Status** No

1. THE REQUEST FILED 11 March 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	

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/298,515	03/11/2019	2414	1720	05-0601-CON0319A	20	3

CONFIRMATION NO. 7686

FILING RECEIPT

135176
LS3 Sonos
Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

OC000000108937050

Date Mailed: 03/29/2019

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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**

Inventor(s)

Nicholas A.J. Millington, Santa Barbara, CA;
Paul V. Hainsworth, Foxboro, MA;

Applicant(s)

SONOS, INC., Santa Barbara, CA;

Power of Attorney: The patent practitioners associated with Customer Number 135176

Domestic Priority data as claimed by applicant

This application is a CON of 15/091,113 04/05/2016
which is a CON of 14/486,667 09/15/2014 PAT 9866447
which is a CON of 13/618,829 09/14/2012 PAT 8868698
which is a CON of 11/147,116 06/06/2005 PAT 8326951
which claims benefit of 60/577,284 06/05/2004

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: 03/27/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/298,515**

Projected Publication Date: 07/04/2019

Non-Publication Request: No

Early Publication Request: No

Title

Playback Device Connection

Preliminary Class

370

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).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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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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The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 16/298,515

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($)	ADDITIONAL FEE($)		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.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
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TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	
Filing Date	March 11, 2019
First Named Inventor	Nicholas A.J. Millington
Title	Playback Device Connection
Art Unit	
Examiner Name	
Attorney Docket Number	05-0601-CON0319A

SIGNATURE of Applicant or Patent Practitioner

Signature	/Brandon J. Kennedy/	Date (Optional)	March 11, 2019
Name	Brandon J. Kennedy	Registration Number	67,894
Title (if Applicant is a juristic entity)	Attorney of Record		
Applicant Name (if Applicant is a juristic entity)	SONOS, INC.		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 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.

DocuSign Envelope ID: 20D7B241-2682-410C-8AFD-8E112A1F4353

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 135176

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Sonos, Inc.

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	Mark Triplett	Date (Optional)	9/1/2015
Name	Mark Triplett		
Title	Director, Intellectual Property		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 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.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Docket No.: 05-0601-CON0319A)

In re Application of:	)	
	)	Confirmation No.: **TBD**
Nicholas A.J. Millington et al.	)	
	)	Art Unit: **TBD**
Application No.: **TBD**	)	
	)	Examiner: **TBD**
Filed: March 11, 2019	)	
	)	
Title: Playback Device Connection	)	

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

GENERAL AUTHORIZATIONS UNDER 37 C.F.R. §§ 1.25(b) and 1.136(a)(3)

In this or any related application filed pursuant to 37 C.F.R. § 1.53, for the entire pendency thereof, and with respect to Deposit Account No. 506632, the Commissioner is hereby generally authorized:

(a) under 37 C.F.R. § 1.25(b), subject to the provisions of 37 C.F.R. § 1.311(b), to charge all fees set forth in 37 C.F.R. §§ 1.16 to 1.18; and

(b) under 37 C.F.R. § 1.136(a)(3) to treat any future reply requiring an extension of time as incorporating a request therefor, and specifically to charge any fee that may be due in connection with such a request.

Respectfully submitted,

Date: March 11, 2019

By: /Brandon J. Kennedy/
Brandon J. Kennedy
Registration No.: 67,894
(312) 754-9315

Lee Sullivan Shea & Smith LLP
656 W Randolph St., Floor 5W
Chicago, IL 60661
(312)754-9602

PTO/AIA/14 (02-18)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	05-0601-CON0319A
	Application Number	
Title of Invention	Playback Device Connection	

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
	Nicholas	A.J.	Millington	

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 St.		
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
	Paul	V.	Hainsworth	

Residence Information (Select One) ◉ US Residency Non US Residency Active US Military Service

City	Foxboro	State/Province	MA	Country of Residence	US

Mailing Address of Inventor:

Address 1	614 Chapala St.		
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).

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	05-0601-CON0319A
	Application Number	
Title of Invention	Playback Device Connection	

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	135176		
Email Address	ls3_docketing@cardinal-ip.com	Add Email	Remove Email

Application Information:

Title of the Invention	Playback Device Connection		
Attorney Docket Number	05-0601-CON0319A	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	9	**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	135176		

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	05-0601-CON0319A
	Application Number	
Title of Invention	Playback Device Connection	

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	15091113	2016-04-05

Prior Application Status	Patented	Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15091113	Continuation of	14486667	2014-09-15	9866447	2018-01-09

Prior Application Status	Patented	Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14486667	Continuation of	13618829	2012-09-14	8868698	2014-10-21

Prior Application Status	Patented	Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13618829	Continuation of	11147116	2005-06-06	8326951	2012-12-04

Prior Application Status	Expired	Remove

Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
11147116	Claims benefit of provisional	60577284	2004-06-05

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

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)

PTO/AIA/14 (02-18)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	05-0601-CON0319A
	Application Number	
Title of Invention	Playback Device Connection	

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

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.

PTO/AIA/14 (02-18)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	05-0601-CON0319A
	Application Number	
Title of Invention	Playback Device Connection	

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 (02-18)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	05-0601-CON0319A
	Application Number	
Title of Invention	Playback Device Connection	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

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:

If the Applicant is an Organization check here. ☒

Organization Name	SONOS, INC.

Mailing Address Information For Applicant:

Address 1	614 Chapala St.		
Address 2			
City	Santa Barbara	**State/Province**	CA
Country	US	Postal Code	93101
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

PTO/AIA/14 (02-18)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	05-0601-CON0319A
	Application Number	
Title of Invention	Playback Device Connection	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country [i]		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Brandon J. Kennedy/			Date (YYYY-MM-DD)	2019-03-11
First Name	Brandon J.	Last Name	Kennedy/	Registration Number	67,894

Additional Signature may be generated within this form by selecting the Add button. Add

PTO/AIA/14 (02-18)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	05-0601-CON0319A
	Application Number	
Title of Invention	Playback Device Connection	

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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:

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 records.

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 CooperationTreaty.

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.

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.

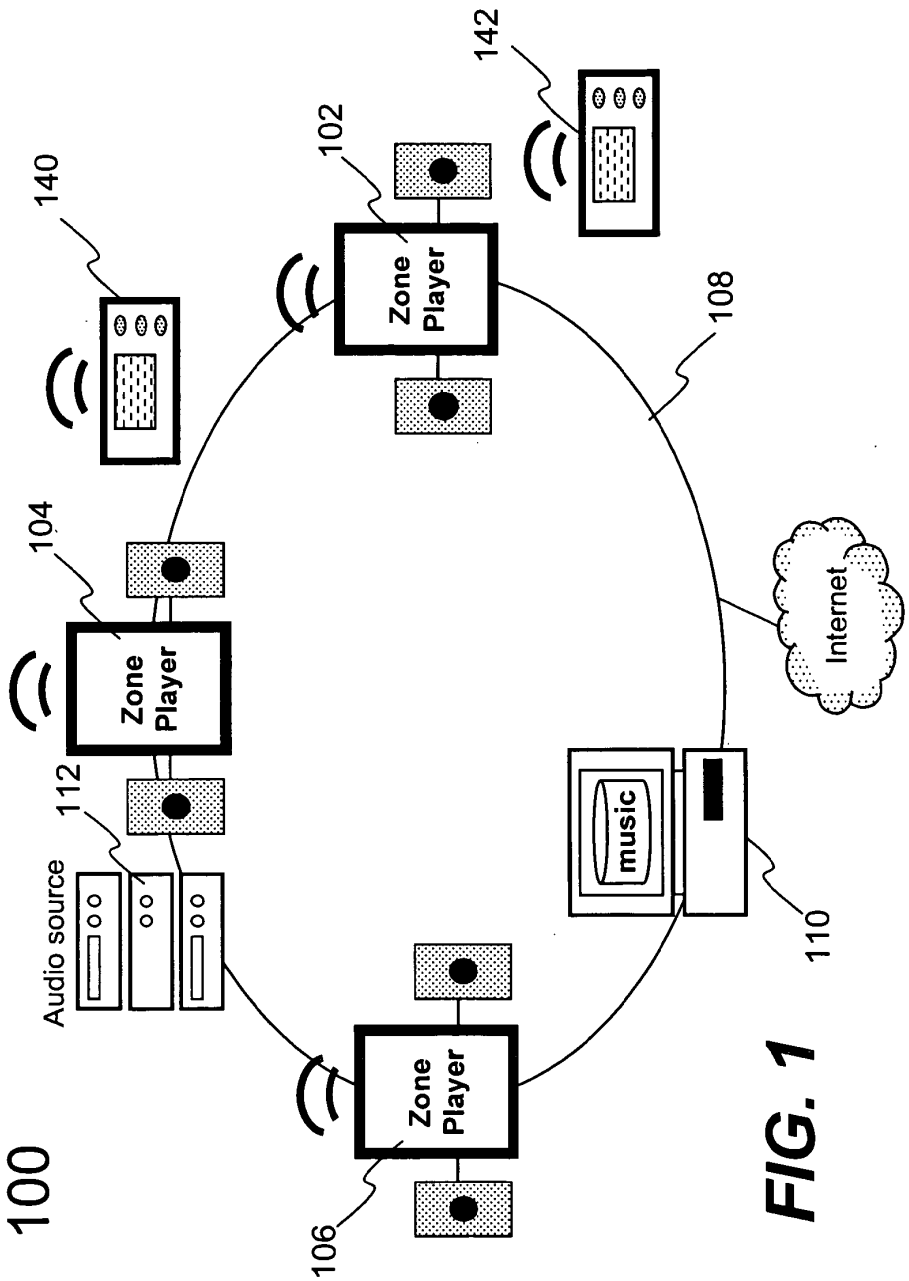

100
Zone Player
Zone Player
Zone Player
Zone Player
102
104
106
108
110
112
140
142
Audio source
music
Internet

FIG. 1

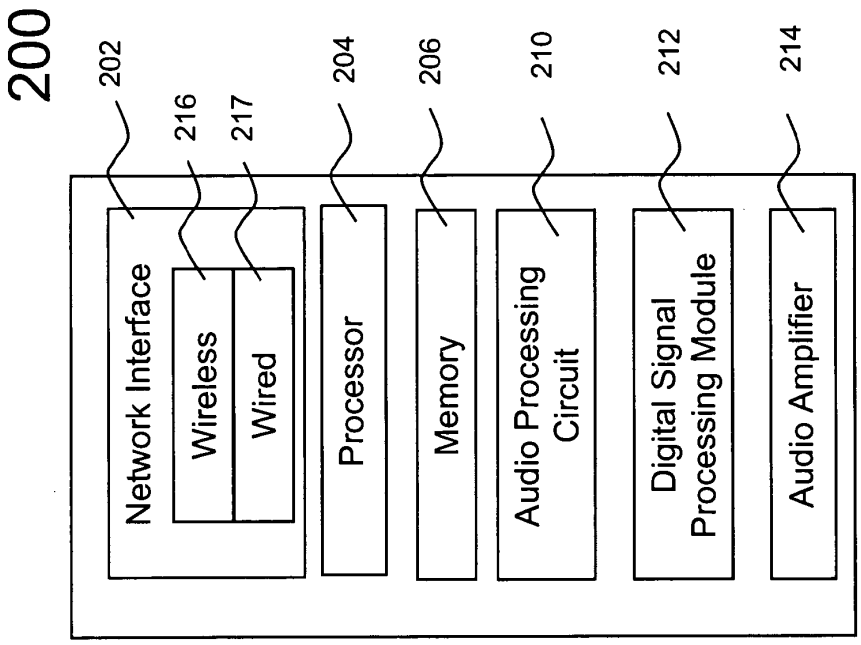

200
202
Network Interface
216
Wireless
217
Wired
204
Processor
206
Memory
210
Audio Processing Circuit
212
Digital Signal Processing Module
214
Audio Amplifier

FIG. 2A

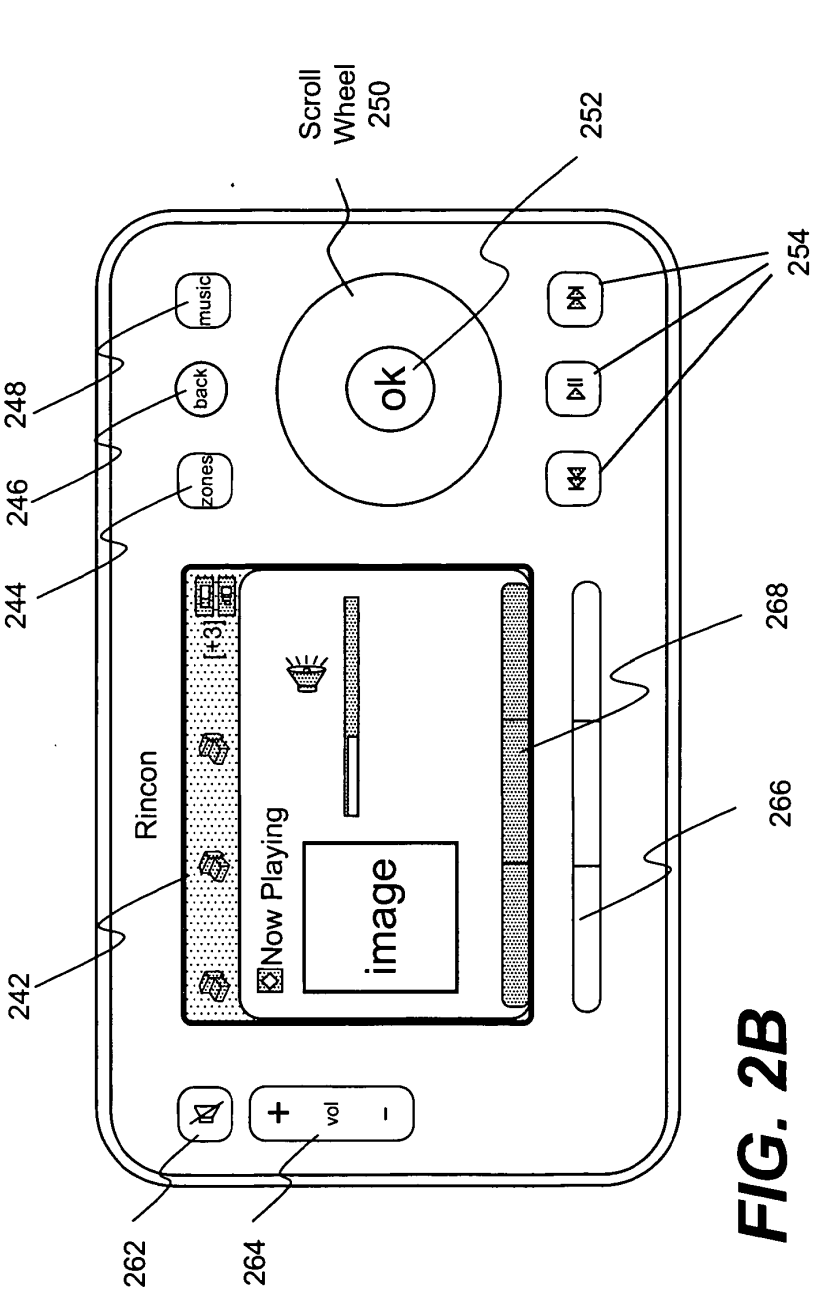

240
Scroll Wheel 250
252
254
248
246
244
music
back
zones
ok
Rincon
[+3]
Now Playing
image
242
268
266
262
264
vol
+
-

FIG. 2B

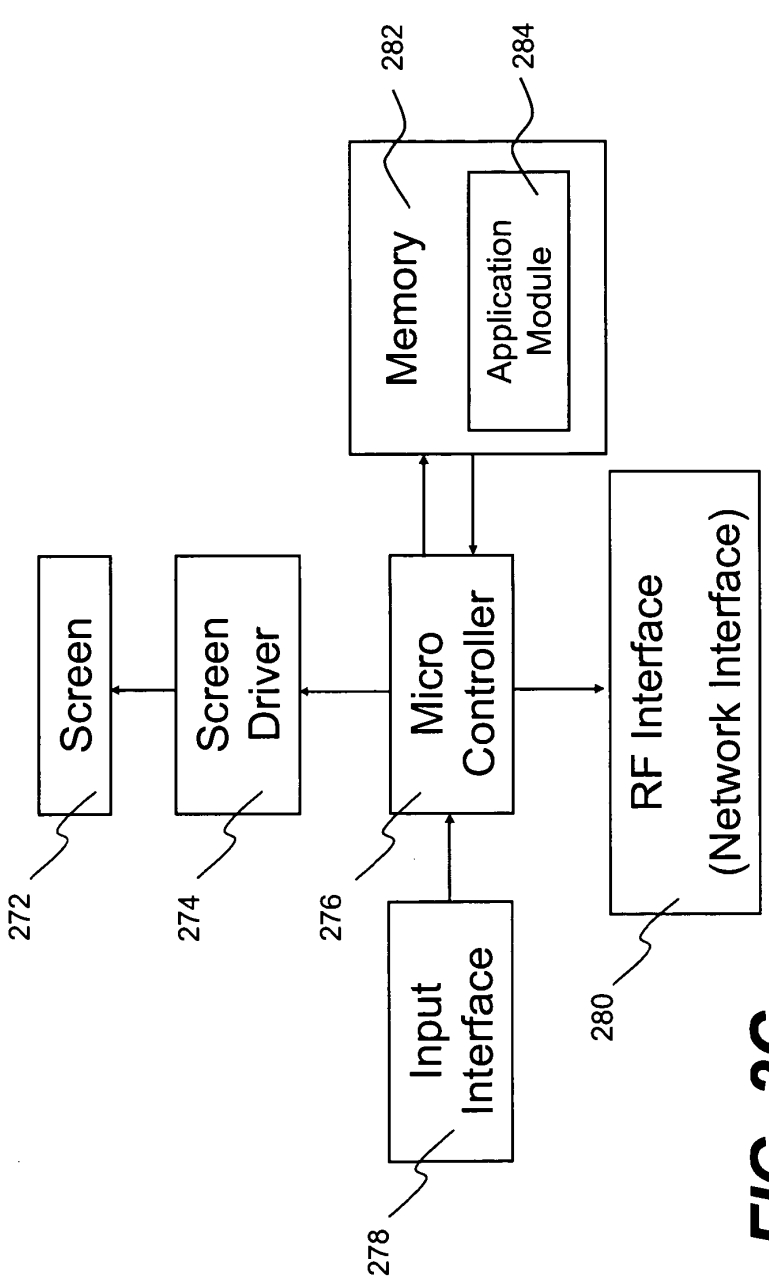

270
Screen
Screen Driver
Micro Controller
Memory
Application Module
RF Interface (Network Interface)
Input Interface
272
274
276
278
280
282
284

FIG. 2C

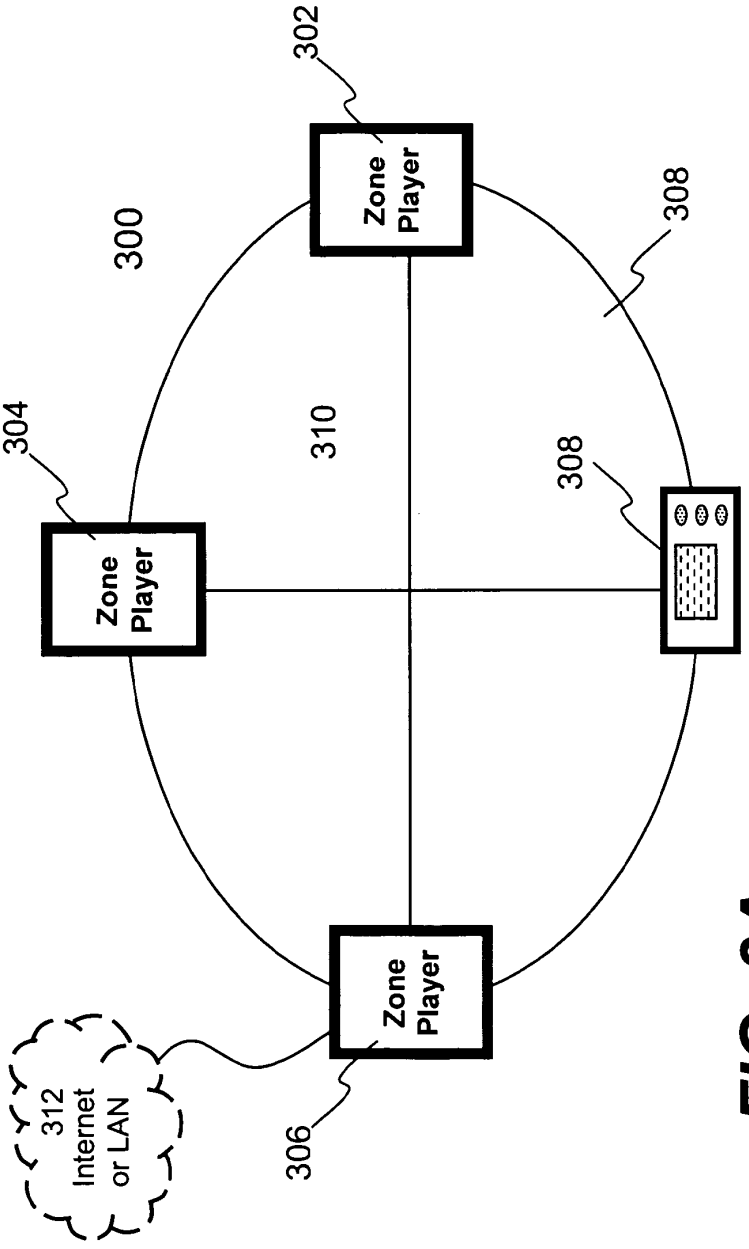

300
302
Zone Player
304
Zone Player
306
Zone Player
308
308
310
312
Internet or LAN

FIG. 3A

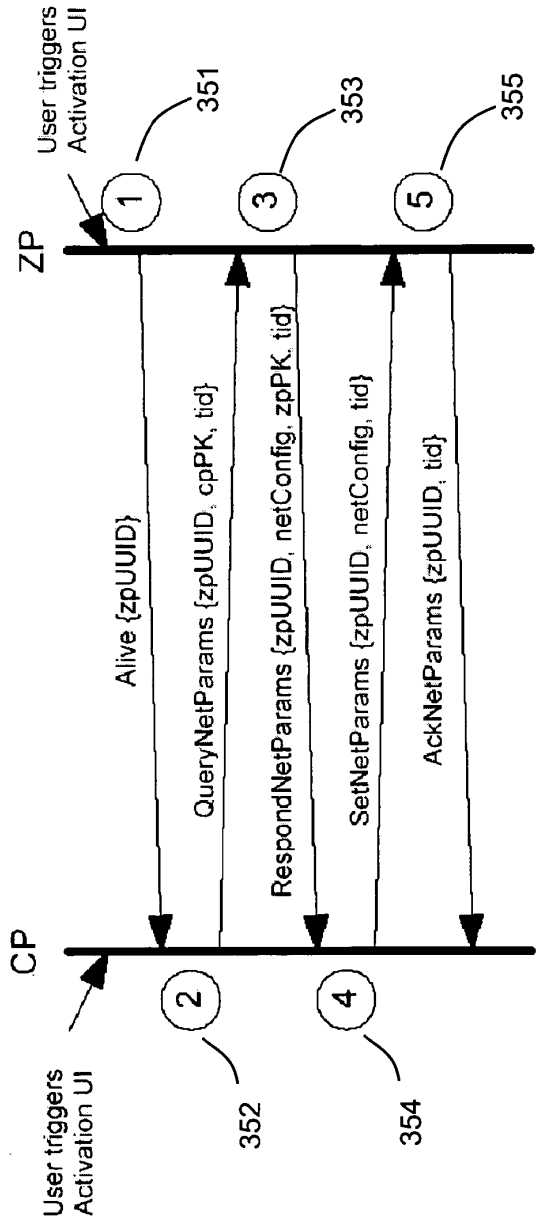

ZP
CP
User triggers Activation UI
User triggers Activation UI
Alive {zpUUID}
QueryNetParams {zpUUID, cpPK, tid}
RespondNetParams {zpUUID, netConfig, zpPK, tid}
SetNetParams {zpUUID, netConfig, tid}
AckNetParams {zpUUID, tid}
1
2
3
4
5
351
352
353
354
355

FIG. 3B

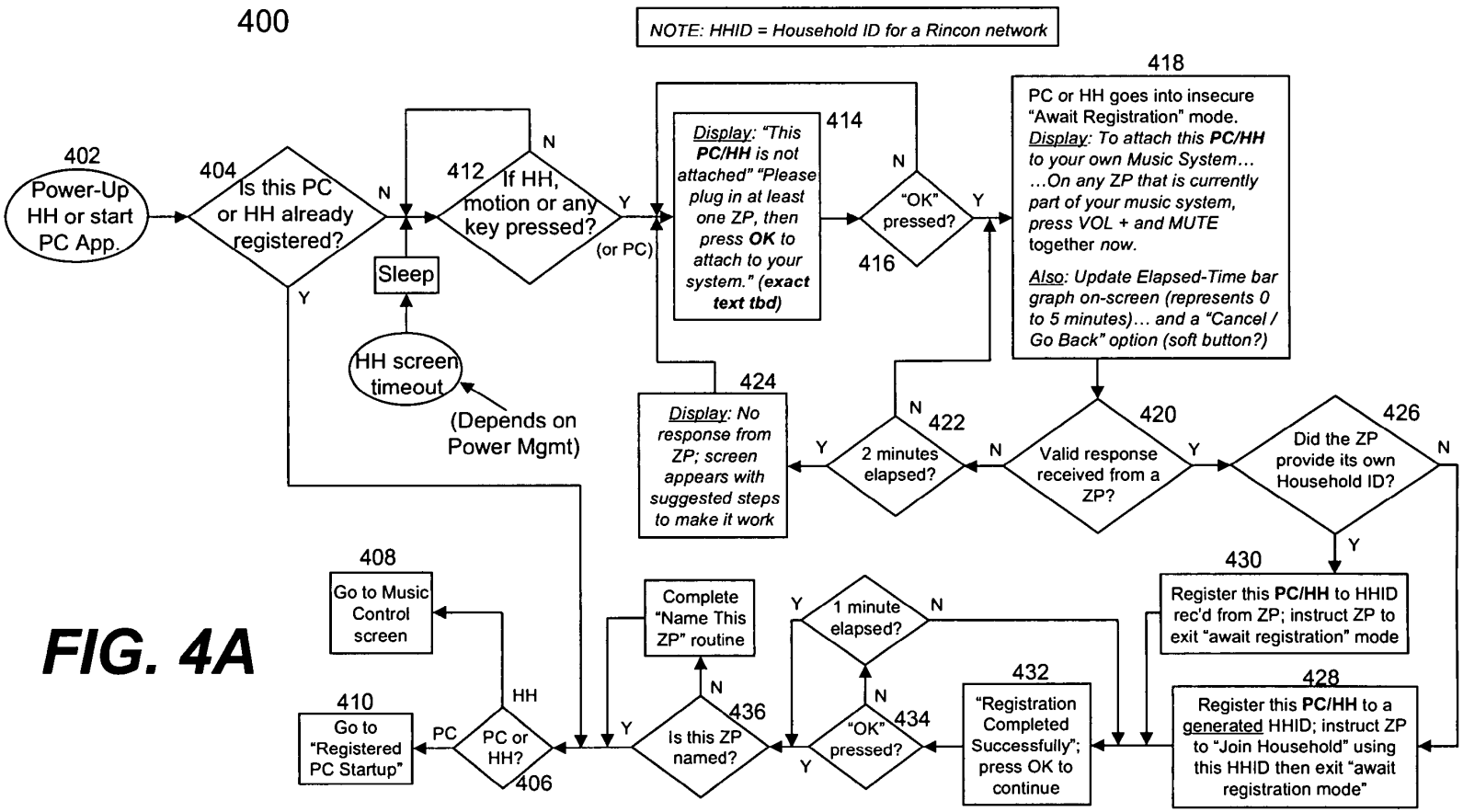

400
NOTE: HHID = Household ID for a Rincon network
402
Power-Up HH or start PC App.
404
Is this PC or HH already registered?
N
Y
412
If HH, motion or any key pressed?
N
Y
(or PC)
Sleep
HH screen timeout
(Depends on Power Mgmt)
414
Display: "This PC/HH is not attached" "Please plug in at least one ZP, then press OK to attach to your system." (exact text tbd)
416
"OK" pressed?
N
Y
418
PC or HH goes into insecure "Await Registration" mode.
Display: To attach this PC/HH to your own Music System…
…On any ZP that is currently part of your music system, press VOL + and MUTE together now.
Also: Update Elapsed-Time bar graph on-screen (represents 0 to 5 minutes)… and a "Cancel / Go Back" option (soft button?)
420
Valid response received from a ZP?
N
Y
422
2 minutes elapsed?
N
Y
424
Display: No response from ZP; screen appears with suggested steps to make it work
426
Did the ZP provide its own Household ID?
N
Y
430
Register this PC/HH to HHID rec'd from ZP; instruct ZP to exit "await registration" mode
428
Register this PC/HH to a generated HHID; instruct ZP to "Join Household" using this HHID then exit "await registration mode"
432
"Registration Completed Successfully"; press OK to continue
434
"OK" pressed?
N
Y
1 minute elapsed?
Y
N
436
Is this ZP named?
N
Y
Complete "Name This ZP" routine
406
PC or HH?
HH
PC
408
Go to Music Control screen
410
Go to "Registered PC Startup"

FIG. 4A

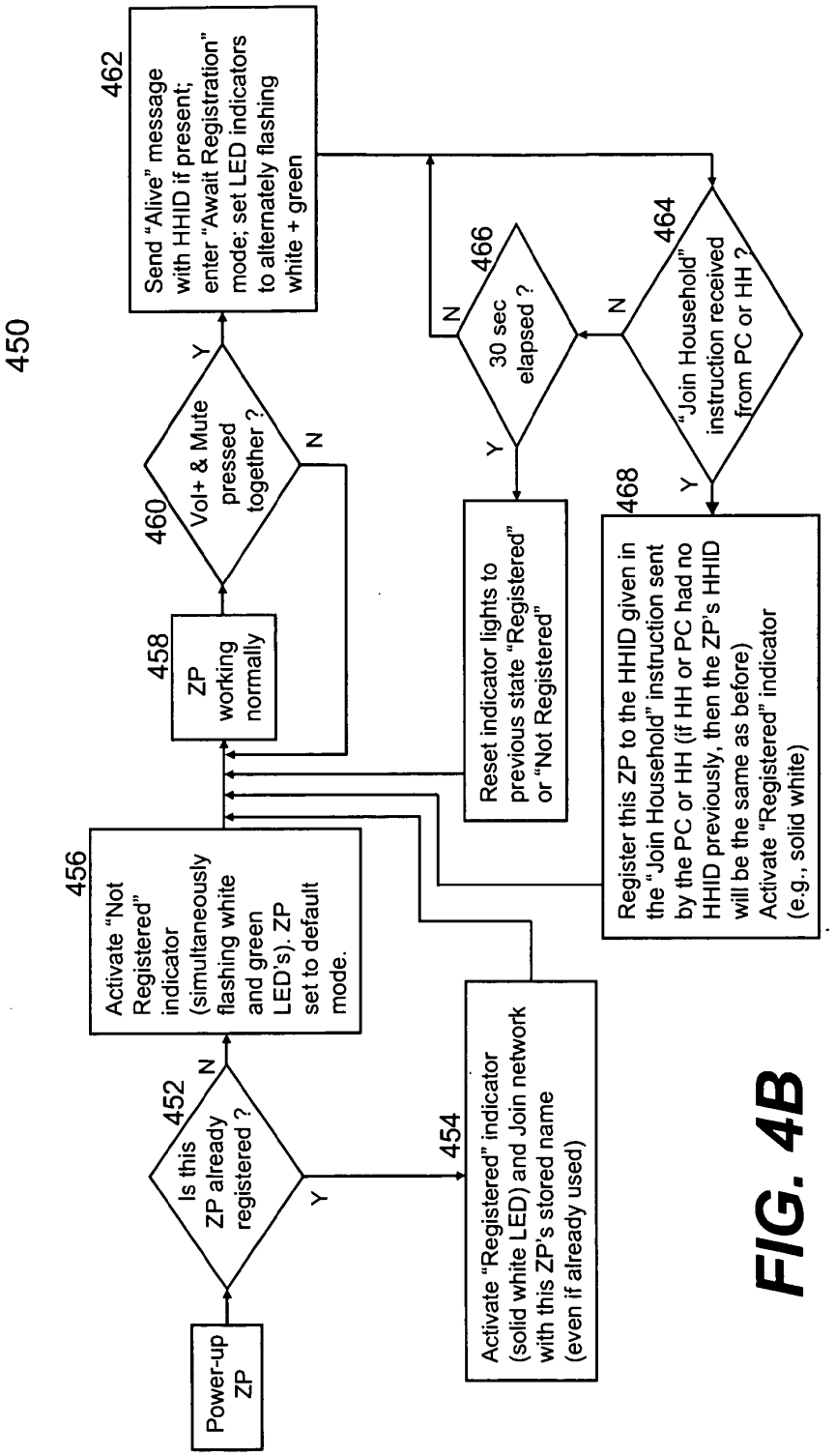
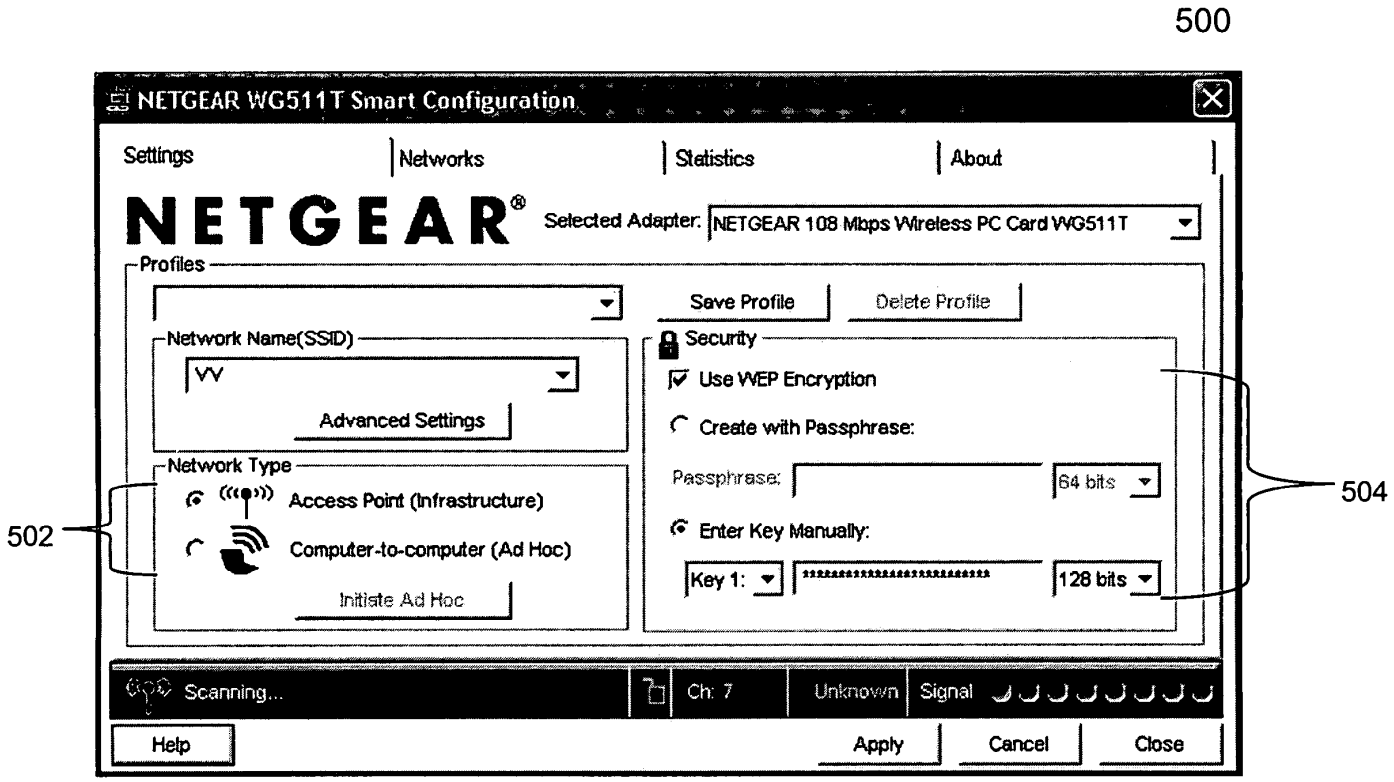

450
Power-up ZP
452
Is this ZP already registered ?
N
Y
454
Activate "Registered" indicator (solid white LED) and Join network with this ZP's stored name (even if already used)
456
Activate "Not Registered" indicator (simultaneously flashing white and green LED's). ZP set to default mode.
458
ZP working normally
460
Vol+ & Mute pressed together ?
Y
N
462
Send "Alive" message with HHID if present; enter "Await Registration" mode; set LED indicators to alternately flashing white + green
464
"Join Household" instruction received from PC or HH ?
N
Y
466
30 sec elapsed ?
N
Y
468
Register this ZP to the HHID given in the "Join Household" instruction sent by the PC or HH (if HH or PC had no HHID previously, then the ZP's HHID will be the same as before)
Activate "Registered" indicator (e.g., solid white)
Reset indicator lights to previous state "Registered" or "Not Registered"

FIG. 4B



(Prior Art)

FIG. 5

LINKPLAY EXHIBIT 1002
Page 812 of 862

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:	Nicholas A.J. Millington	Nonprovisional Application Number (if known):	
Title of Invention:	Playback Device Connection		

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 /Brandon J. Kennedy/	Date March 11, 2019
Name (Print/Typed) Brandon J. Kennedy	Practitioner Registration Number 67,894

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.

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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.

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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.
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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.
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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.

ABSTRACT

An example playback device includes programming to perform functions including detecting a triggering event that causes the playback device to transmit a first message indicating that the playback device is available for setup. The functions also include receiving a response to the first message that facilitates establishing an initial communication path with a computing device operating on a secure wireless local area network (WLAN), where the initial communication path is outside of the secure WLAN. The functions also include receiving, from the computing device via the initial communication path, a second message containing network configuration parameters for the secure WLAN including an identifier of, and a security key for, the secure WLAN. The functions also include using the network configuration parameters to connect to the secure WLAN and transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure WLAN.

CLAIMS

We Claim:

1. A playback device comprising:

a network interface that is configured to provide an interconnection with at least one data network;

at least one processor;

a non-transitory computer-readable medium; and

program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

detecting a triggering event that causes the playback device to enter a setup mode in which the playback device transmits at least a first message indicating that the playback device is available for setup;

while in the setup mode, receiving a response to the first message that facilitates establishing an initial communication path with a computing device operating on a secure wireless local area network (WLAN), wherein the initial communication path is outside of the secure WLAN;

receiving, from the computing device via the initial communication path, at least a second message containing network configuration parameters for the secure WLAN, wherein the network configuration parameters comprise an identifier of the secure WLAN and a security key for the secure WLAN;

using the network configuration parameters to connect to the secure WLAN; and

transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure WLAN.

2. The playback device of claim 1, wherein the triggering event comprises one of (a) powering on the playback device or (b) receiving user input via a physical interface of the playback device.

3. The playback device of claim 1, wherein the computing device comprises a controller device of a networked audio system.

4. The playback device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

after receiving the second message, providing an indication that the playback device has successfully received the network configuration parameters for the secure WLAN.

5. The playback device of claim 4, wherein providing the indication comprises transmitting, to the computing device via the initial communication path, at least a third message indicating that the playback device has successfully received the network configuration parameters;

6. The playback device of claim 4, wherein providing the indication comprises providing an indication that the playback device has successfully connected to the secure WLAN using the network configuration parameters.

7. The playback device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

after connecting to the secure WLAN, establishing a new networked audio system on the secure WLAN.

8. The playback device of claim 1, further comprising program instructions stored on the non-

transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

after connecting to the secure WLAN, joining an existing networked audio system operating on the secure WLAN.

9. The playback device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

receiving, from the computing device, a command to assign a name to the playback device.

10. The playback device of claim 1, wherein communicating with the computing device via the secure WLAN comprises receiving a command related to playback of audio content.

11. The playback device of claim 10, wherein the command comprises a command to retrieve audio content for playback from an audio source that is accessible via a communication path that includes the secure WLAN, and wherein the playback device further comprises program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the playback device to perform functions comprising:

in response to receiving the command, retrieving the audio content from the audio source via the communication path that includes the secure WLAN.

12. The playback device of claim 1, wherein the second message comprises a command for the playback device to adopt the network configuration parameters.

13. The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor,

cause the computing device to perform functions comprising:

after transitioning to communicating with computing device via the secure WLAN, receiving, from the computing device, a command to form a group with at least a first playback device of a networked audio system such that the playback device is configured to play back audio content in synchrony with at least the first playback device.

14. A non-transitory, computer-readable storage medium, wherein the non-transitory computer-readable storage medium is provisioned with program instructions that are executable to cause a playback device to perform functions comprising:

detecting a triggering event that causes the playback device to enter a setup mode in which the playback device transmits at least a first message indicating that the playback device is available for setup;

while in the setup mode, receiving a response to the first message that facilitates establishing an initial communication path with a computing device operating on a secure wireless local area network (WLAN), wherein the initial communication path is outside of the secure WLAN;

receiving, from the computing device via the initial communication path, at least a second message containing network configuration parameters for the secure WLAN, wherein the network configuration parameters comprise an identifier of the secure WLAN and a security key for the secure WLAN;

using the network configuration parameters to connect to the secure WLAN; and

transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure WLAN.

15. The non-transitory, computer-readable storage medium of claim 14, wherein the triggering event comprises one of (a) powering on the playback device or (b) receiving user input via a physical interface of the playback device.

16. The non-transitory, computer-readable storage medium of claim 14, wherein the non-transitory computer-readable medium is also provisioned with program instructions that are executable to cause the playback device to perform functions comprising:

after receiving the second message, providing an indication that the playback device has successfully received the network configuration parameters for the secure WLAN.

17. The non-transitory, computer-readable storage medium of claim 16, wherein providing the indication comprises transmitting, to the computing device via the initial communication path, at least a third message indicating that the playback device has successfully received the network configuration parameters;

18. The non-transitory, computer-readable storage medium of claim 16, wherein providing the indication comprises providing an indication that the playback device has successfully connected to the secure WLAN using the network configuration parameters.

19. The non-transitory, computer-readable storage medium of claim 14, wherein communicating with the computing device via the secure WLAN comprises receiving a command to retrieve audio content for playback from an audio source that is accessible via a communication path that includes the secure WLAN, and wherein the non-transitory computer-readable medium is also provisioned with program instructions that are executable to cause the playback device to perform functions comprising:

in response to receiving the command, retrieving the audio content from the audio source via the communication path that includes the secure WLAN.

20. A method comprising:

detecting, by a playback device, a triggering event that causes the playback device to enter a setup mode in which the playback device transmits at least a first message indicating that the

playback device is available for setup;

while in the setup mode, receiving a response to the first message that facilitates establishing an initial communication path with a computing device operating on a secure wireless local area network (WLAN), wherein the initial communication path is outside of the secure WLAN;

receiving, from the computing device via the initial communication path, at least a second message containing network configuration parameters for the secure WLAN, wherein the network configuration parameters comprise an identifier of the secure WLAN and a security key for the secure WLAN;

using the network configuration parameters to connect to the secure WLAN; and

transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure WLAN.

Application for a United States Patent United States Patent and Trademark Office

Title: Playback Device Connection

Inventor(s): Nicholas A.J. Millington
Paul V. Hainsworth

Assignee: Sonos, Inc.
614 Chapala St.
Santa Barbara, CA 93101

CROSS REFERENCE TO RELATED APPLICATIONS

[0000] This application is a continuation of U.S. App. 15/091,113, filed on Apr. 5, 2016; U.S. App. 14/486,667, filed on Sep. 15, 2014, and issued on Jan. 9, 2018, as U.S. Pat. 9,866,447; U.S. App. 14/486,667 is a continuation of U.S. App. 13/618,829, filed on Sep. 14, 2012, and issued Oct. 21, 2014, as U.S. Pat. 8,868,698; U.S. App. 13/618,829 is a continuation of U.S. App. 11/147,116 filed on Jun. 6, 2005, and issued Dec. 4, 2012, as U.S. Pat. 8,326,951; U.S. App. 11/147,116 claims priority to provisional application 60/577,284 filed Jun. 5, 2004, and which is now expired. The entire contents of the 15/091,113; 14/486,667; 13/618,829; 11/147,116; and 60/577,284 applications are incorporated herein by reference.

BACKGROUND

Field of the Invention

[0001] The invention is generally related to the area of multimedia technologies in consumer electronics industry. More particularly, the invention is related to techniques for connecting various devices to a network for secure communications with a minimum of human interaction and technical ability.

The Background of Related Art

[0002] Consumer electronics devices that operate using wireless or wired Ethernet standards are often subject to the same complicated set-up process as a wireless computer network. Typically, the person who sets up the wireless network must have at least some knowledge about IP (Internet Protocol) networking and Ethernet (e.g., 802.3, 802.11), such as addressing, security, broadcast, unicast, etc. Such a skill requirement is generally acceptable for computer-to-computer networks, which is typically done by an IT professional. However, it is impractical to require average consumers to have such knowledge to hook up consumer electronic devices, such as home entertainment products that use wireless/wired Ethernet connectivity.

[0003] FIG. 5 shows an exemplary setting **500** for connecting a computer to a wireless network. The setting **500** is typically displayed when a user is ready to connect the computer to a wireless network so that the user can enter relevant information in the setting **500.** Although the setting **500** requires very little information to make the computer connected to the network, the information is relatively technical to the average consumers. First, the user has to know what type of network the computer is going to be connected to. There are two choices **502,** Access Point (infrastructure) and Computer-to-computer (Ad Hoc). The distinction between these two types of network is a common knowledge to the IT professionals yet can be a difficult question to the average consumers. Further even if the user knows the difference, there are more questions or options related to the security settings in **504,** which evidently requires some good understanding about the network security over the wireless network.

[0004] For home entertainment products, there is a clear need to create simple methods of setting up and maintaining a secure wireless/wired in-home network with minimum human interventions.

SUMMARY OF THE INVENTION

[0005] This section is for the purpose of summarizing some aspects of the present invention and to briefly introduce some preferred 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 present invention.

[0006] In general, the present invention pertains to techniques for automatically configuring necessary parameters of a device to be coupled to a network. According to one aspect of the present invention, an Ad-hoc (wireless or wired) network is established to facilitate communications among a group of devices. When a new device

is added to the network, a rudimentary communication path is initially established between one of the devices in the network ("first device") and the new device ("second device") such that necessary parameters (e.g., SSID, WEP security, channel frequency) can be exchanged for the second device to function properly in the network. To ensure the parameters are exchanged in a secure fashion, an additional public security procedure can be used between the two devices.

[0007] According to another aspect of the present invention, a first device that may be or may not be the device in the network broadcasts a message including probing datagrams in compliance with the standard IP broadcast. The rudimentary communication path may be established after the second device responds to the message from the first device. According to yet another aspect of the present invention, such an automatic configuration process is only started when a user is indeed ready to do so. In general, a mechanism is provided and accessible by the user to activate the process. As such, no incident or unwanted configuration process could be initiated without the approval of the user. In one embodiment, the second device is equipped with two buttons that must be pressed simultaneously to activate the automatic configuration process.

[0008] The necessary parameters in the second device are subsequently configured in several exchanges of messages with the first device. At least some of the messages are encrypted. As a result, the second device is automatically configured to operate correctly in the network with a minimum of human intervention and technical ability. In an exemplary application of the present invention for an audio system with a controller and multiple zone players, an Ad-hoc network is formed among the controller and the zone players, where the network may be wired or wireless or a mixture of both. In one case, either a handheld controller or a zone player (referred to as an access device) is coupled to an access point of a LAN. An Ad-hoc network can be thus formed based on the access device. The remaining (unconfigured) zone players may be coupled to the network whenever desired, all with minimum human intervention. As a

result, any one of the zone players may communicate with each other to share or distribute audio sources available on the Internet and reproduce sounds together or separately.

[0009] The present invention may be implemented in many forms including software, hardware or a combination of both as method, process, or system. According to one embodiment of the present invention, the present invention is a method for providing a first device and a second device for the network, activating the second device intentionally to automatically configure necessary parameters with the first device, establishing automatically a rudimentary communication path between the first device and the second device by scanning all available transmission channels allocated in accordance with a protocol; and exchanging messages between the first device and the second device over the rudimentary communication path till the second device is fully operating with the first device.

[0010] According to another embodiment of the present invention, the present invention is a system for establishing a network for a group of devices, the system comprises at least one of the devices provided to remotely control operations of one or more of the other devices, one of the devices (hereinafter "first device") configured to establish automatically respective rudimentary communication paths for probing communication, each of the rudimentary communication paths being with one of the other devices, wherein an automatic configuration process takes place only in one of the other devices after the user authorizes the one of the other devices to start the automatic configuration process, and wherein the automatic configuration process causes several messages to be exchanged between the first device and one of the other devices, some of the messages carry information pertaining to an appropriate

transmission channel, an identifier of the network and a security key for subsequent communication, the some of the messages are encrypted.

[0011] According to yet another embodiment of the present invention, the present invention is a system for establishing a network for a group of devices, the system comprises a plurality of zone players, each equipped with a mechanism that is once manually activated by a user, an automatic configuration process starts, wherein one of the zone players is coupled to a local area network as an access device; and at least a controller provided to remotely control operations of one or more of the zone players, wherein the access device establishes automatically respective rudimentary communication paths, each with the controller or one of the remaining zone players, the automatic configuration process takes places in the controller and each of the remaining zone players after the user manually activates the automatic configuration process respectively in the controller and each of the remaining z ne players, and wherein the automatic configuration process causes several messages to be exchanged between the access device and any one of the controller and the remaining zone players that have been activated for the automatic configuration process, some of the messages carry information pertaining to a transmission channel, an identifier of the network and a security key for subsequent communication, at least some of the messages are encrypted.

[0012] According to still another embodiment of the present invention, the present invention is a software product to be executable in a device for establishing a network for a group of devices, the software product comprises program code for activating a second device, when requested, to automatically configure necessary parameters with a first device, program code for establishing automatically a rudimentary communication path with the first device by scanning all available transmission channels allocated in accordance with a protocol, and program code for exchanging messages between the

first device and the second device over the rudimentary communication path till the second device is fully operating with the first device.

[0013] According to still another embodiment of the present invention, the present invention is a method for establishing a network for a group of devices, the method comprises providing a plurality of zone players, each equipped with a mechanism that once is manually activated by a user, an automatic configuration process starts, wherein at least a controller is provided to remotely control operations of one or more of the zone players; coupling one of the zone players to a local area network as an access device; establishing automatically respective rudimentary communication paths with the access device, each of paths being with the controller or one of the remaining zone players, wherein the automatic configuration process takes place in the controller and each of the remaining zone players after the user manually activates the automatic configuration process respectively in the controller and each of the remaining zone players, and exchanging several messages between the access device and any one of the controller and the remaining zone players that have been activated for the automatic configuration process, wherein some of the messages carry information pertaining to a transmission channel, an identifier of the network and a security key for subsequent communication, and at least some of the messages are encrypted.

[0014] One of the objects, features, and advantages of the present invention is to provide techniques that facilitate automatic configuration of devices to be coupled to a network with minimum human intervention.

[0015] 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

[0016] These and other features, aspects, and advantages of the present invention will become better understood with regard to the following description, appended claims, and accompanying drawings where:

[0017] FIG. 1 shows an exemplary configuration in which the present invention may be practiced;

[0018] FIG. 2A shows an exemplary functional block diagram of a player in accordance with the present invention;

[0019] FIG. 2B shows an example of controllers that may be used to remotely control one of more players of FIG. 1;

[0020] FIG. 2C shows an exemplary internal functional block diagram of a controller in accordance with one embodiment of the present invention;

[0021] FIG. 3A shows three zone players and a controller that form an Ad-Hoc network as an example to facilitate the description of an automatic configuration process contemplated in the present invention;

[0022] FIG. 3B shows an embodiment that involves a process of five exchanges of data;

[0023] FIG. 4A shows a flowchart or process according to one embodiment of the present invention;

[0024] FIG. 4B shows another flowchart or process according to one embodiment of the present invention; and

[0025] FIG. 5 shows an exemplary setting for connecting a computer to a wireless network.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0026] The present invention pertains to techniques for automatically configuring necessary parameters of a device to be coupled to a network with minimum human intervention. According to one aspect of the present invention, a wired and/or wireless Ad-hoc network is established to facilitate communications among a group of devices. According to one aspect of the present invention, when a new device is added to the network, a rudimentary communication path is initially established between one of the devices ("first device") in the network and the new device ("second device") such that necessary parameters (e.g., SSID, WEP security, channel frequency) can be exchanged for the new device to function properly in the network. To ensure the parameters are exchanged in a secure fashion, an additional public security procedure can be used between the two devices.

[0027] The detailed description of the present invention is presented largely in terms of procedures, steps, logic blocks, processing, or other symbolic representations that directly or indirectly resemble the operations of devices or systems that can be used on networks. These descriptions and representations are typically use by those skilled in the art to most effectively convey the substance of their work to others skilled in the art.

[0028] Reference herein to "one embodiment" or "an 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 the phrase "in one embodiment" 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. Further, the order of blocks in process flowcharts or diagrams or the use of sequence numbers representing one or more embodiments of the invention do not inherently indicate any particular order nor imply any limitations in the invention.

[0029] Embodiments of the invention are discussed herein with reference to an audio system with multi-zone capability. However, those skilled in the art will readily appreciate that the detailed description given herein with respect to the audio system is for explanatory purposes as the invention extends beyond these limited embodiments.

[0030] Referring now to the drawings, in which like numerals refer to like parts throughout the several views. FIG. 1 shows an exemplary configuration **100** in which the present invention may be practiced. The configuration may represent, but not be limited to, a part of a residential home, a business building or a living 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.

[0031] As used herein, unless explicitly stated otherwise, a track and an audio source are used interchangeably, an audio source or audio sources are in digital format and can be transported or streamed across a data network. To facilitate the understanding of the present invention, it is assumed that the configuration **100** represents a home. Thus, the zone player **102** and **104** may be located in two of the bedrooms respectively while the zone player **106** may be installed 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 devices such as a home gateway device, a storage device, or an MP3 player may be coupled to the network **108** as well.

[0032] 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).

[0033] All devices on the network **108** may be configured to download and store audio sources or receive streaming audio sources. For example, the computing device **110** can download audio sources from the Internet and store the downloaded sources locally for sharing with other devices on the Internet or the network **108.** The zone player **106** can be configured to receive streaming audio source and share the source with other devices. Shown as a stereo system, the device **112** is configured to receive an analog source (e.g., from broadcasting) or retrieve a digital source (e.g., from a compact disk). The analog sources can be converted to digital sources. In accordance with the present invention, all audio sources, regardless of where they are located or how they are received, may be shared among the devices on the network **108.**

[0034] Any device on the network **108** may be configured to control operations of the zone players **102, 104** and **106.** In particular, one or more controlling devices **140** and **142** are used to control zone players **102, 104** and **106** as shown in FIG. 1. The controlling devices **140** and **142** are preferably portable and remotely control the zone players via wireless means (e.g., infrared, radio, wireless standard IEEE 802.11b or 802.11g). In one embodiment, besides controlling an individual zone player, the controlling device **140 or 142** is configured to manage audio sources and other

characteristics of all the zone players regardless where the controlling device **140** or **142** is located in a house or a confined living complex.

[0035] Referring now to FIG. 2A, there is shown an exemplary functional block diagram of a zone player **200** in accordance with the present invention. The zone player **200** includes a network interface **202,** a processor **204,** a memory **206,** an audio processing circuit **210,** a digital signal processing module **212,** and an 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 is TCP/IP (Transmission Control Protocol/Internet Protocol) commonly used in the Internet. In general, a network interface manages the conversion of an audio source or file into smaller packets that are 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.**

[0036] The network interface **202** may include either one or both of a wireless interface **216** and a wired interface **217.** The wireless interface **216,** also referred to as a 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 or 802.119). The wired interface **217** provides network interface functions by a wired means (e.g., an Ethernet cable). Depending on implementation, each of the zone players may be equipped with either one or both of the interfaces **216 or 217.** In one embodiment, a zone player, referred to as an access zone player, including both of the interfaces **216** and **217** is coupled to an access point of an LAN and communicates with other zone players wirelessly. Thus these other zone players may communicate with other devices on a

network or retrieve audio sources via the access 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.

[0037] The audio processing circuit **210** resembles most of 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 (e.g., 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.

[0038] Depending on an exact implementation, the digital signal processing module **212** may be implemented within the audio processing circuit **210** or as a combination of hardware and software. The audio amplifier **214** is typically an analog circuit that powers the provided analog audio signals to drive one or more speakers.

[0039] Referring now to FIG. 28, there is shown an example of a 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 living 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

802.11 a, 802.11b or 802.11g). When a particular audio source is being played in the zone player **200,** a picture, if there is one, 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 select an audio source for playback. In another embodiment, the controller **240** is used to manage (e.g., add, delete, move, save, or modify) a playlist.

[0040] 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.**

[0041] The screen **242** displays various screen menus in response to a selection by a user. In one embodiment, the "zones" button **244** activates a zone management screen or "Zone Menu" to allow a user to group players in a number of desired zones so that the players are synchronized to play an identical playlist or tracks. 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 track) to be added to a playlist (e.g., a music queue) for playback.

[0042] 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 use to confirm the user selection on the screen **242** or activate a playback of an item.

[0043] There are three transport buttons **254,** which are used to control the effect of the currently playing track. For example, the functions of the transport buttons may include play/pause and forward/rewind a track, move forward to the next track, or move backward to the 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 can be 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 zone player is selected.

[0044] FIG. 2C illustrates an internal functional block diagram of an exemplary controller **270,** which may correspond to the controller **240** of FIG. 2B. The screen **272** on the controller **270** may be a 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 automatic establishment of a wireless connection with a network or another device. In another embodiment, an application module is configured to facilitate automatically configuring itself after communicating with another configured device. It should be noted that similar application modules may also be included in the memory 206 of FIG. 2A. As a result, either a zone player or a controller may be

automatically configured to communicate over a network, provided such an automatic configuration is intended by a user.

[0045] 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 wireless interface or RF interface thereof. 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 controllers, each preferably in a zone (e.g., a room) and configured to control any one and all of the zone players.

[0046] It should be pointed out that the controller **240** in FIG. 2B is not the only controlling device that may practice the present invention. Other devices that provide the equivalent control functions (e.g., a computing device, a PDA, a hand-held device, and a laptop computer) 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.

[0047] It is assumed that a user has obtained an audio system that includes a set of zone players and a controller. Although it is possible to connect each of the zone players and the controller to a network, the requirement for extra network cards, cables and a hub/switch/router makes the idea unattractive. The introduction of wireless networking has allowed for an implementation without these requirements. FIG. 3A shows that there are three zone players **302, 304** and **306** and a controller **308** that form a network branch that is also referred to as an Ad-Hoc network **310.** In one embodiment, the network **310** is pure wireless. In another embodiment, the network **310** is wired or a combination of wired and wireless. In general, an Ad-Hoc (or "spontaneous") network is a local area network or other small network in which there is

no one access point for all traffics. With an established Ad-Hoc network, the devices **302, 304, 306** and **308** can all communicate with each other in 'peer-to-peer' style of communication. Furthermore, any device may come/go from the network and the network will automatically reconfigure itself without needing the user to reconfigure the network.

[0048] By the Ad-Hoc network **310,** the devices **302, 304, 306** and **308** may share or exchange one or more audio sources and be grouped to play identical or different audio sources. For example, the devices **302** and **304** are grouped to play back one piece of music, and at the same time, the device **306** plays back another piece of music. In other words, the devices **302, 304, 306** and **308** as shown in FIG. 3A form a HOUSEHOLD that distribute audio and/or reproduce sound. As used herein, the term HOUSEHOLD (always in caps to disambiguate from the user's domicile) is used to represent a collection of networked devices that are cooperating to provide an application or service. An instance of a HOUSEHOLD is identified with a Household ID (or HHID).

[0049] In one embodiment, an HHID is a short string or an identifier that is computer-generated to ensure that it is unique. Accordingly, the network **310** may be characterized by a unique HHID and a unique set of configuration variables or parameters, such as Channels (i.e., respective frequency bands), SSID (a sequence of alphanumeric characters as a name of a wireless network), and WEP keys (wired equivalent privacy, or simply security keys). In one embodiment, SSID is simply set to be the same as HHID. One of the aspects of the present invention is to provide a bootstrap procedure that enables automatic and simple establishment of these configuration parameters in each device within a HOUSEHOLD to enable communications among the devices.

[0050] In general, each HOUSEHOLD includes two types of network nodes:

- Control Point (CP) - it controls the overall network setup process and sequencing, including an automatic generation of required network parameters (e.g., WEP keys). In one embodiment, it also provides the user with a HOUSEHOLD configuration user interface. The CP function is typically provided by a computer running a CP application module, or by a handheld controller (e.g., the controller **308)** also running CP application module.
- Zone Player (ZP) - the ZP is any other device on the network that is placed to participate in the automatic configuration process. It should be noted that ZP, as a notation used herein, includes the controller **308** or a computing device.

[0051] The configuration of a HOUSEHOLD involves multiple CP's and ZP's that rendezvous and establish a known configuration such that they can use standard networking protocol (e.g., IP over Wired or Wireless Ethernet) for communication. In one embodiment, there are two types of networks/protocols: Ethernet - 802.3 and Wireless - 802.11g. Interconnections between a CP and a ZP may use either one of the networks/protocols. A device in the system as a member of a HOUSEHOLD may• connect to both networks simultaneously. In an environment that has both networks in use, it is assumed that at least one device in a system is connected to both as a bridging device, thus providing bridging services between wired/wireless networks for others. The zone player **306** in FIG. 3A is shown to be connected to both networks, for example, the connectivity to the network **312** is based on Ethernet while the connectivity to other devices **302, 304** and **308** is based on Wireless.

[0052] *Establishing a rudimentary communication path.* In reference to FIG. 3A, a zone player is not yet a member of a HOUSEHOLD. It is assumed that the zone player is to be added to become a member of the HOUSEHOLD by a cable or wireless. When the zone player is initially turned on, it executes an embedded module that is configured

to establish a rudimentary communication path with another device (network-enabled). The rudimentary communication path facilitates the automatic configuration of the zone player via the another device. This communication path may operate over wireless and/or Ethernet protocols, as the zone player may be connected to one or both. In operation, the communication path does not cause negative effects on other devices in the vicinity and can reach all other members of the HOUSEHOLD (both CP's and ZP's) if there are any. It should also be noted that the communication path does not have to be direct between two devices and may be bridged by one or more other devices. Because the communication path is only used for initial device configuration, it does not require significant performance or sophisticated functionality. There are at least two elements to establish the communication path: channel selection and packet exchange.

[0053] *Channel Selection.* The selection of an appropriate (RF) transmission channel or simply channel is primarily an exercise in two constraints: finding a channel that is quiet from a protocol (e.g., 802.11) viewpoint, i.e., minimal conflicting wireless traffic, and finding a channel that is quiet from an RF viewpoint, i.e., minimal noise from other signals. Both of these tests may be applied because typically a home environment may have other RF (e.g., 2.4GHz) traffic or potentially other wireless access points. It is generally desirable to use a channel that is free from other RF interference. In any case, it is always desirable to avoid other wireless traffic.

[0054] Channel selection is typically accomplished with a scanning technique, namely the device listens on each channel for a period of time, looking for the presence of wireless beacons and other RF signals. In one embodiment, devices that are configured have a preferred channel for the HOUSEHOLD, devices that are not configured have a pre-defined (default) channel or channels that they rendezvous on. For example, 802.11b/g channel 1 could be pre-configured as the default channel.

Alternatively, multiple channels, with a well-known frequency hopping sequence, could be used by the devices (this would require an aperiodic frequency change interval).

[0055] Many hardware configurations only support reception/transmission on a single channel at a given time. Also there are configured and unconfigured devices that may use different channels for the bootstrap configuration and standard network operations (post-configuration communications). According to one embodiment, it is necessary to forcibly put the devices in a "configuration" mode, whereby they use the appropriate channels for communication.

[0056] *Packet Exchange.* To enable communication between devices that are not part of the same HOUSEHOLD, a packet exchange network infrastructure is developed. Probing messages are sent in such a way that they traverse both the Ethernet and wireless networks, reaching any connected devices. Devices that are already in a HOUSEHOLD constitute a network infrastructure that can be used to exchange unicast and multicast/broadcast network frames between the devices. A device that is not yet in the HOUSEHOLD has a much more limited networking capability and can only receive data from devices to which it is directly wired, and unencrypted messages broadcast to all wireless networks operating in a particular channel of the RF spectrum.

[0057] In general, an IP address of a new device is not known to any members of the HOUSEHOLD. If the device is purely wireless, it may not have an IP address at all, or it may have an automatically assigned IP address that is inaccessible to other devices with IP addresses respectively assigned by a DHCP server. To allow devices that are not members of the HOUSEHOLD to join the HOUSEHOLD, a transport may be constructed that can get data one "hop" beyond the HOUSEHOLD network infrastructure.

[0058] In one embodiment, packets of data are broadcasted among the members of the HOUSEHOLD. The packets of data comprise a mixture of "probe" datagrams and standard IP broadcast. For example, the 802.11 "probe" datagrams are used for the inherent ability to cross wireless network boundaries. In other words, the "probe" datagrams can be received by all listeners (i.e., other devices) on the channel, even those that are not configured with an SSID, because they are sent to the broadcast BSS (e.g., FF:FF:FF:FF:FF:FF) to which all devices may be configured to listen. A standard IP broadcast is used on the wired network segments and the HOUSEHOLD network infrastructure to enable a PC-based controller to participate while running with standard user privileges (which allow access only to IP-based network services). Used together as described below, the combination of the "probe" datagrams and IP broadcast provides for a broadcast datagram transport that allows even devices that have not had any networking parameters configured to communicate.

[0059] In general, the probe datagrams comprise a number of elements to facilitate the configuration of other devices to join the HOUSEHOLD. In one embodiment, each of the elements carries up to 255 bytes of data. An element contains data payload for each message used by the bootstrap procedure to invite others to join the HOUSEHOLD. This element is repeated as many times as necessary to carry the complete message. In one embodiment, the IP broadcast datagrams contain the same data payload as the normal IP data payload.

[0060] Messages relating to the bootstrap procedure may be forwarded beyond the boundaries of an existing HOUSEHOLD network infrastructure (including properly configured wireless devices, and the wired network). Similarly, messages originating outside of the HOUSEHOLD network infrastructure may be forwarded into the infrastructure. This forwarding procedure may be accomplished in a mixed wireless/wired network environment without introducing a broadcast storm. A broadcast

storm is a state in which a message that has been broadcast across a network results in more responses than necessary, and each response results in even more responses in a snowball effect, subsequently resulting in a network meltdown. In one embodiment, the network is carefully configured to prevent such a broadcast storm or any illegal broadcast messages. To accomplish this, two flags are included in the message body, for example, "SENT_AS_PROBE" and "SENT_AS_IP_BROADCAST". When a device receives a "probe" message, assumed using "Sonos Netstart" SSID (or the broadcast BSS, as with all probe requests), it forwards the message as an IP broadcast message (after setting the "SENT_AS_IP_BROADCAST" flag) if the SENT_AS_IP_BROADCAST flag is not already set. Similarly, when it receives an IP broadcast with a UDP payload address to an appropriate port (e.g., port number 6969), it forwards the message as a "probe" datagram (after setting the "SENT_AS_PROBE" flag) if that flag is not already set. This allows messages related to the packet exchange both to enter and to exit the HOUSEHOLD network infrastructure without causing a broadcast storm.

[0061] Using this method of broadcast communication, packets can be sent between any member of the HOUSEHOLD and a device to join the HOUSEHOLD on both Ethernet and wireless networks. The device to join the HOUSEHOLD may be brand new and previously configured with a different network (e.g., a device with a stale configuration in a different household). In addition, if used sparingly, these broadcast messages do not interfere with the normal operation of the network or attached devices. As a result, a communication path on an agreed channel has been established between two devices.

[0062] *Device Discovery.* To minimize impact on existing networks and to improve configuration security, the system requires a user to manually activate the auto-configuration process. This is accomplished by a specific action on each device that is being added to the network. For example, if the user is installing a brand new

HOUSEHOLD, containing one CP and two ZP's, the activation process may be manually activated on each by, for example, powering off and on, pushing a reset button or pushing two or more specific buttons simultaneously. In one embodiment, the CP or ZP is simply powered up by the user, which activates the pre-installed module to start the bootstrap procedure.

[0063] For a ZP:

- If the device is unconfigured (e.g., factory default settings), it will immediately go into a "sleep" mode where it is awaiting an activation command.
- If the device has been previously configured, it will attempt to contact other members of its HOUSEHOLD network.

There are situations in which a ZP is orphaned, namely it is previously configured (e.g., perhaps, with another Ad-hoc network) and now is to be added to the HOUSEHOLD (e.g., the ZP is obtained from a previous owner). In the case of an orphan scenario, the ZP may patiently attempt to contact its original network. It can be perceived that this operation will be unsuccessful but otherwise harmless. Even in this configured state, the device can participate in the rudimentary broadcast communication processes described above.

[0064] For the CP:

- If the device is unconfigured (e.g., factory default settings), it will present the user with a description of how to start the configuration process.
- If the device is configured, it will attempt to contact other members of its HOUSEHOLD network.

The CP may also be an orphaned device, in which case it performs similarly to that of the ZP.

[0065] In both cases, correctly configured devices will establish network communications and make themselves available for normal operation. All devices, including those previously configured, will enter an "activation state" when the user indicates that this is desired. At this point, the configuration process can begin.

[0066] *Device Configuration.* The configuration is carried out by exchanging data between two devices that are not necessarily directly connected. This procedure is carried over a rudimentary communication path as described previously. The sequence of exchanging the data is initiated by the user or some other process, for example, activating a reset button, to trigger the "activation" or configuration mode on the involved devices. Each device executes this sequence, and then exits the activation mode. FIG. 3B shows an embodiment that involves a process of five exchanges of data.

[0067] Each of the data exchanges is referred to as a type of message: Alive, QueryNetParams, RespondNetParams, SetNetParams, and AckNetParams, each is explained as follows:

Alive - a message indicating that a named ZP is available for configuration. The message includes at least a *zpUU/O* which is a globally unique identifier that identifies the ZP sending the message.

QueryNetParams - a request from the CP to the ZP to respond with the ZP's current network configuration information. The request includes at least a *zpUUID, cpPK* (the RSA public key of the CP) and *tid* (a unique transaction identifier).

RespondNetParams - a response to the QueryNetParams. It includes the ZP's network configuration information (HHID, WEP key and RSA public key). For security reasons, the WEP key is encrypted using the CP's public key that is only readable by the CP. The response includes at least a *zpUUID, netConfig(the* ZP's current network configuration parameters), *zpPK, and tid.* It is should be noted that a new ZP, set to

factory defaults, shall have well-known parameter values, allowing the CP to determine that it is unconfigured.

SetNetParams - a command message from the CP to the ZP indicating that the ZP should reconfigure its network parameters. The WEP key is encrypted using the ZP's public key, and therefore only readable by the ZP. The command includes at least a *zpUU/O, netConfig* and *tid.* It should be noted that *netConfig* includes the new configuration parameters for the ZP, as determined by the CP. The ZP should save this value in its network configuration, in some cases, these parameters may match the ZP's existing configuration.

AckNetParams - a response to the SetNetParams messaging. The response indicates that the SetNetParams message was received and that the network configuration contained therein has been successfully applied. The response includes at least a *zpUUID* and a *tid.*

[0068] In operation, after a user activates the configuration process (on both ZP and CP) at 351 in FIG. 38. The CP enters a state where it is willing to accept an Alive message. The CP only remains in this state for a limited (finite) period of time. The ZP enters an activation state where it attempts rendezvous with a CP. The ZP only remains in this state for a limited (finite) period of time. The ZP will periodically transmit an Alive message until it either receives a QueryNetParams message, or exits the activation state.

[0069] At **352,** the CP receives an Alive message. If the CP is in the configuration mode, it will generate a new *tid,* and send a QueryNetParams message and send to the ZP. It should be noted that the CP may or may not have been configured at this point. In either case, it sends the QueryNetParams. At **353,** if it is already in the activation state, the ZP responds to a QueryNetParams with its current network configuration. If the ZP is unconfigured (e.g., factory default settings), it will

return an empty HHID and WEP key. If the ZP is previously configured, it will return its current configuration. The ZP also returns its public key such that the WEP key can be encrypted using the CP's public key.

[0070] At **354,** upon receiving the ZP's current configuration information, the CP decides on a course of action. Most, but not all, of these options result in a SetNetParams message being sent to the ZP. The matrix ofpossible situations:

	GP already configured	*GP not configured*
ZP *already configured*	The CP sends a SetNetParams message to the ZP containing the GP's current net config.	**The CP sets its own config to match the ZP config, and the config process is terminated.**
ZPnot *configured*	**The CP sends a** SetNetParams message **tothe ZP containing the CP's current net config.**	**The CP generates new config parameters. The parameters are sent to the ZP in a** SetNetParams **message. The CP sets its own config to these values as well.**

[0071] At **355,** when the ZP receives a SetNetParams message, it reconfigures its own HHID and WEP key to match those contained in the network packet.

Accordingly, the GP determines that it generates new configuration parameters in accordance with the following:

- HHID - this is provided by the user via the CP user interface or automatically generated by the CP.

- SSID - this is automatically generated by the CP (e.g., set to the same value as the HHID).
- WEP Key- this is automatically generated (e.g., using a pseudo-random number generator, seeded with entropy collected by the GP).
- Channel - the GP probes the network looking for an acceptable channel (based on a variety of criteria, which may include traffic and interference from other sources).

[0072] Subsequent to the activation process, any devices that have been reconfigured will attempt to establish normal network communications using their new network configuration parameters. In all of the above steps, if the CP or ZP is not already in the activation state, receipt of any messages is ignored.

[0073] If there are multiple ZP's activated simultaneously, all of the devices could execute this same sequence, independently of each other (the CP is capable of multiple independent sessions). If multiple CP's are activated, each will respond to a ZP's Alive message and will execute the sequence - the first one to deliver the SetNetParams to the ZP will configure it. It should be noted that in this case, the second CP will never get an AckNetParams message (because the ZP has exited the activate state). This will cause a transaction timeout in the second CP, at which point it will typically inform the user of the error, or retry the entire sequence. Should it retry the entire sequence, it will not reprogram the ZP (as described above that the effect of an unconfigured CP talking to a configured ZP).

[0074] *Security.* To ensure that the communication among the members in a HOUSEHOLD by wireless means is secure, there are multiple issues in the auto-configuration that are resolved in the present invention.

1. Typically, the broadcasting messages in packet exchange are unencrypted. However, it is undesirable to transmit sensitive information such as WEP keys over wireless medium without encryption. As described below, public key cryptography is used to ensure that WEP keys are distributed in a secured manner.
2. Because the network configuration process is automated and the data is transmitted over the network, it is desirable to ensure that the process is not started without the approval of the user. Specifically, it must not be possible for a malicious wireless device to surreptitiously program one of the devices. Accordingly, the auto-configuration process is started manually by a user on all devices.
3. When one of the connected devices is removed from the HOUSEHOLD, it can no longer access to the network. This is accomplished with a mechanism on each device that resets it to factory default configuration (e.g., erases WEP keys and other private information).
4. It must be possible for the user to validate that they have correctly configured the right devices and that no other devices have been joined to the network. In one embodiment, this is accomplished with a validation/status user interface on the Control Point.

[0075] *Use of Public Key Cryptography.* The configuration process uses public key cryptography to exchange WEP keys and other information which must not be visible to any party sniffing the network. In one embodiment, this is accomplished in the following manner:

1. There is a designated (e.g., Sanos) certificate authority (CA), an entity that can issue signed public key certificates.

2. Each CP and ZP is factory configured with a unique certificate, public and private key, in a format that supports the RSA algorithm. The certificate is signed and issued by the designated CA, and includes a hash of the MAC address of a device.
3. CP and ZP exchange public keys and WEP keys are encrypted using the public key. In certain circumstances, the devices compare the MAC in received packets with that in the certificate to add an additional layer of security.

[0076] FIG. 4A shows a flowchart or process **400** according to one embodiment of the present invention. The process **400** may be implemented in hardware, software or a combination of both as a method, a system or a process. In one embodiment, the process **400** is implemented for a handheld controller or a computing device. To facilitate the understanding of the process **400,** the description herein is based on a handheld controller, such as the controller **308** of FIG. 3A, which shall not be considered as the limitations to the present invention.

[0077] Typically, a handheld controller (or HH) is equipped with a mechanism to allow a user to reset itself. In some implementation, the reset is simply done when the controller is powered up. At **402,** it is assumed that the controller is powered up. The process **400** goes to **404** to determine whether the controller is configured. By configuration, it means that the controller is ready for communication with other devices (e.g., zone players) that may or may not be on a network, preferably a wireless network. In the context of FIG. 3A, it means that the handheld device **308** is ready to communicate with each or all of the devices **302, 304,** and **306** (assuming that the devices **302, 304,** and **306** have not been configured yet).

[0078] It is assumed that the controller is configured, the process **400** goes to **406** where it determines whether the device is a controller or a computer. As described above, the device may be a controller, a personal computer or other type of device, although it has been assumed to be a controller. Nevertheless, in this embodiment, a step is provided to determine exactly what it is, because a controller and a computer may provide a different display or graphic environment. If the device is indeed a controller, the process **400** goes to **408,** wherein the controller shows a proper screen for a user to proceed with the control of the zone players or replay of certain audios via one or more zone players. If the device is a computer, the computer is typically loaded with a module that is now executed to display an environment (e.g., a graphic user interface or GUI) that allows a user to perform many tasks that may be done on the handheld controller in addition to other tasks that may be assisted by a pointing device (e.g., a mouse) or a keyboard.

[0079] In any case, it is assumed that the device is a controller. Referring back to **404,** it is now assumed that the device is not configured, the process **400** goes to **412** to determine if a user has activated the automatic configuration process. In one embodiment, the controller goes to "sleep" mode after a predefined time should there be no activation of the configuration process. When the user activates the configuration process, the process **400** goes **414** to determine whether the controller itself is coupled to an access point of a network, at least a member of the HOUSEHOLD (e.g., one zone player) is coupled thereto or an Ad-Hoc network. Typically, a GUI is provided for a handheld or a computer. Accordingly, a display with a relevant message is displayed. After it is certain that either the controller itself or a zone player is coupled to a network, a user may press "OK" in the displayed GUI.

[0080] At **418,** should the user desire to start the automatic configuration process now, the user activates the process manually. In one embodiment, there are two

buttons, labeled respectively as "VOL" and "Mute". When these two buttons are pressed at the same time, the automatic configuration process starts. The process 400 goes to 420 to determine whether a valid response is received from a zone player. If not, after a certain time 422, the process 400 goes back to 418 to reactivate the process or 414 via 424 to remind the user to ensure that the required connection is placed.

[0081] In one embodiment, a handheld controller is configured to facilitate a new zone player to execute a household join process to join the HOUSEHOLD upon an appropriate channel. The channel may be agreed upon between the controller and the zone player as follows:

1) when a reset or two buttons are pushed on the ZonePlayer to 'activate' the household join process, it starts a scan through the available wireless channels, sending the "Alive" datagram for each channel in turn. Sometimes, it cycles through the channels several times;
2) as soon as the ZonePlayer receives a QueryNetParams request address to itself, it stops the channel cycling; and
3) The ZonePlayer remains locked on whatever channel it has stopped cycling until a successful sequence ending in the configuration of the ZonePlayer (at which point it uses the specified channel), or a timeout expires (at which point it returns to its original channel or resumes cycling through channels and sending alive messages if the overall timeout for the activation process has not expired).

[0082] Although the Zone Player performs the channel cycling, the controller may also be configured to perform the channel cycling as well. However, when the controller is, for example, a personal computer, the Zone Player is typically configured to cycle through the available channels.

[0083] In any case, when a valid response is received from the zone player, the process **400** determines whether the zone player provides its own network name (e.g., HHID) at **426.** If the zone player does not have an HHID, which means that the zone player is to be added into a wireless network named after an HHID provided by the device, the process **400** goes to **428** to instruct the zone player to join the wireless network. If the zone player does have an HHID, which means that the device itself is to be added into the wireless network named after the HHID provided by the zone player, the process **400** goes to **430** to exit.

[0084] The automatic configuration process, as described above, is executed. After it is completed, a message or an indication of completion is displayed. After the user acknowledges at **434,** the user is offered to name the zone player, for example, "Dinning" which means that the zone player is in the dinning room. Subsequently, the process **400** goes to **406.**

[0085] For completeness, FIG. 4B shows a flowchart or process **450** that may be also implemented in hardware, software or a combination of both as a method, a system or a process. In one embodiment, the process **450** is implemented for a zone player. To facilitate the understanding of the process **450,** the description herein is based on a zone player, such as the player **302** of FIG. 3A, which shall not be considered as the limitations to the present invention.

[0086] When a zone player is powered up, the process **450** determines whether the zone player is already registered or configured at **452.** There are situations in which the zone player just obtained by a user is already configured, for example, the zone player is a used one (i.e., previously configured). If it is indeed configured, the process **450** goes to **454** where an indication of "registered" is shown. If the zone player is never

configured, the process **450** goes to **456** to indicate such. It is assumed that the zone player works normally at **458** (e.g., through an internal checkup).

[0087] At **460,** a user activates the automatic configuration process by, for example, pressing two buttons, labeled respectively as "VOL" and "Mute", at the same time. The automatic configuration process starts by sending out an Alive message at 462 as described above. At **464,** the zone player awaits a response. If no response is received within or beyond a predefined time, the process **450** goes to **466 or 458** to continue waiting for a response or restart the process. It is assumed that there is a response, and the automatic configuration process continues as shown in FIG. 3B without failure, the process goes to **468** where the zone player is now part of the wireless network named after an HHID received either from a configured device or provided by itself.

[0088] There are numerous functions, benefits and advantages in the present invention. One of them is that the present invention provides techniques for automatically configuring parameters of a device to be coupled to an Ad-hoc network, where the Ad-hoc network forming by a group of devices can be wireless, wired or a combination of both. By way of the present invention, a system including a set of zone players and one or more controllers operates correctly and does not interfere with any existing network. Other functions, benefits and advantages can be appreciated from the detailed description provided above.

[0089] The present invention has been described in sufficient details 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. Accordingly,

the scope of the present invention is defined by the appended claims rather than the foregoing description of embodiments.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Filer:	Brandon Jacob Kennedy/Noemy Salgado
Attorney Docket Number:	05-0601-CON0319A

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:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**5860**

Electronic Acknowledgement Receipt	
EFS ID:	35379235
Application Number:	16298515
International Application Number:	
Confirmation Number:	7686
Title of Invention:	Playback Device Connection
First Named Inventor/Applicant Name:	Nicholas A.J. Millington
Customer Number:	135176
Filer:	Brandon Jacob Kennedy
Filer Authorized By:	
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Authorized User	Brandon Kennedy
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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	Oath or Declaration filed	05-0601-CON0316B_Declaration.pdf	178147 542cd5fc880ec0550cad5c2f073c0e43792e9abd	no	2
Warnings:					
Information:					
2	Power of Attorney	05-0601-CON0319A_POA.pdf	240203 082b88770a1c340d1c1416de6a7595dc966d240f	no	2
Warnings:					
Information:					
3	Authorization for Extension of Time all replies	05-0601-CON0319A_General_Authorization.pdf	73766 e941fc1f5483e72bec2c609aa1e31c88206fa81a	no	1
Warnings:					
Information:					
4	Application Data Sheet	05-0601-CON0319A_ADS.pdf	1256438 e7f6c79aa8f9275557e6968e23f4dffafd0dc52c	no	9
Warnings:					
Information:					
5	Drawings-only black and white line drawings	05-0601-CON0316A_Figures.pdf	179689 ac9aaf796356c42aa74ea55e7684bbd57839280e	no	9
Warnings:					
Information:					
6	TrackOne Request	05-0601-CON0319A_Track1Request.pdf	130236 d6f90bf7f437185b1c6d87c3a6c736b7daebc452	no	2
Warnings:					
Information:					

7		05-0601-CON0319A_Specification.pdf	296296 57c60b3d06f2a3625e3b3f8ae7ada7112b1919f5	yes	41

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Abstract	41	41
	Claims	35	40
	Specification	1	34

Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	38782 9463baa2f740c0654da604368c5cb0f5a6da8708	no	2
Warnings:					
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		Total Files Size (in bytes):	2393557		

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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.
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PTO/AIA/01 (06-12)
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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	Playback Device Connection

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 15/091,113

filed on 05-APR-2016.

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.

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LEGAL NAME OF INVENTOR

Inventor: Nicholas A.J. Millington

Date (Optional): 2016-07-28

Signature: DocuSigned by: Nicholas A.J. Millington D19DFCAD2158435... /Nicholas A.J. Millington/

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.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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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Title of Invention	Playback Device Connection

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

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LEGAL NAME OF INVENTOR

Inventor: Paul V. Hainsworth Date (Optional): 2016-07-11

Signature: DocuSigned by: Paul V. Hainsworth A2C20405FEDF457... /Paul V. Hainsworth/

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