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.

GOOGLE EXHIBIT 1024
GOOGLE v. SONOS
IPR2025-01213

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		

DocuSigned by: 50B9EDB889E7465...

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).

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	

☐ **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)

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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.

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.

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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

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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 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.

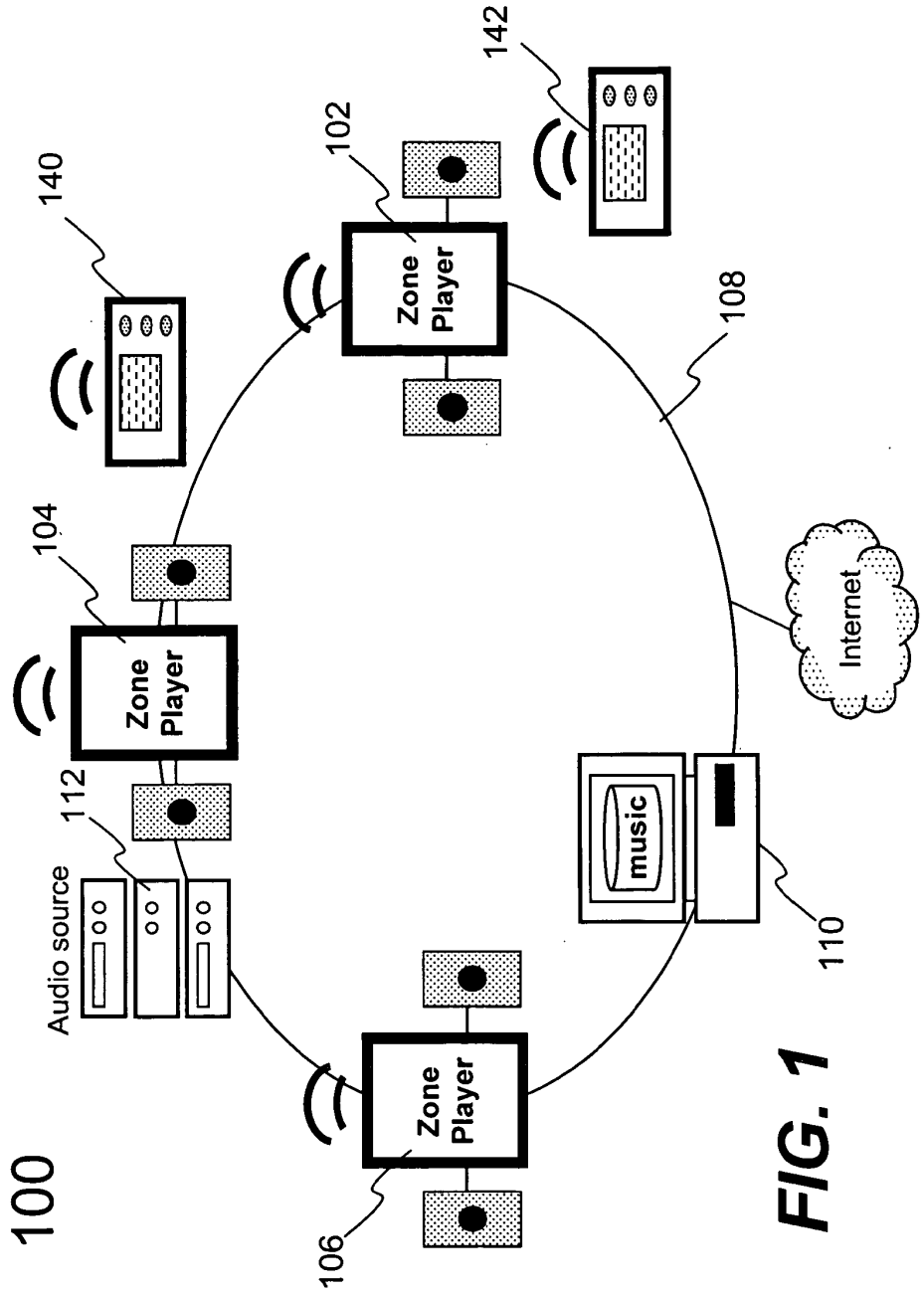

100
Zone Player
102
Zone Player
104
Zone Player
106
140
142
108
Internet
music
110
112
Audio source

FIG. 1

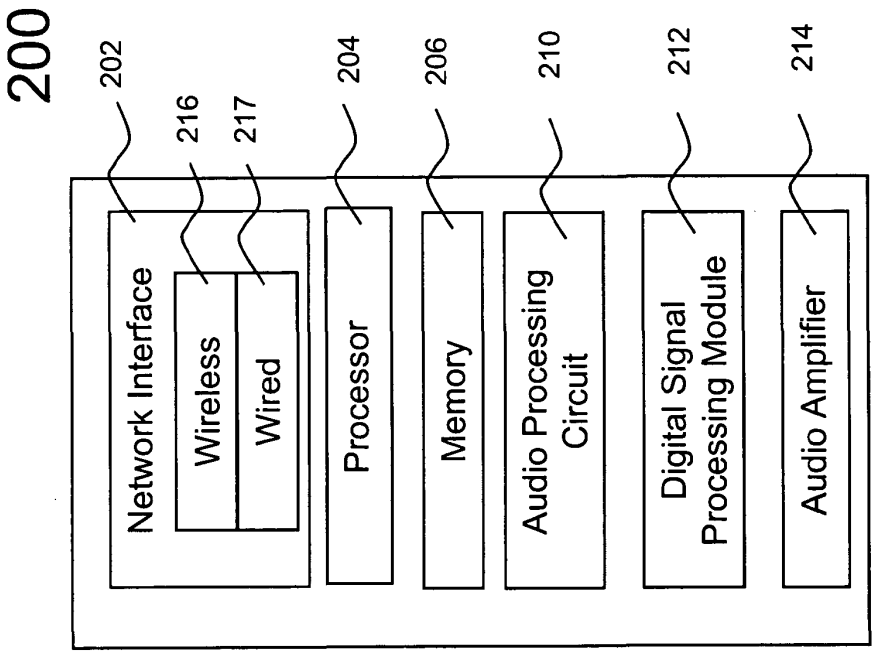

200
202
216
217
204
206
210
212
214
Network Interface
Wireless
Wired
Processor
Memory
Audio Processing Circuit
Digital Signal Processing Module
Audio Amplifier

FIG. 2A

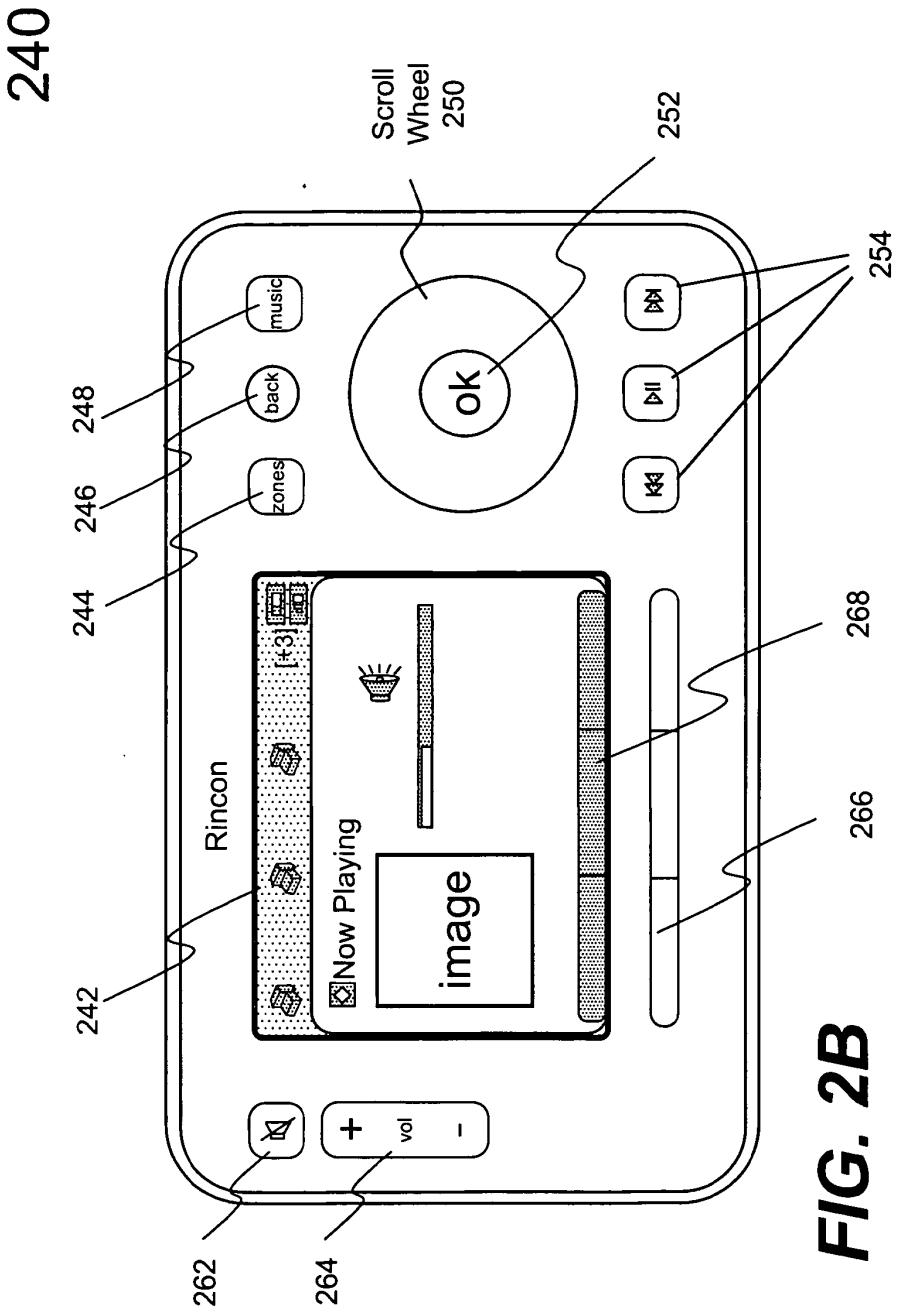

240
Scroll Wheel 250
252
254
248
246
244
242
268
266
262
264
music
back
zones
ok
Rincon
Now Playing
image
vol
+
-

FIG. 2B

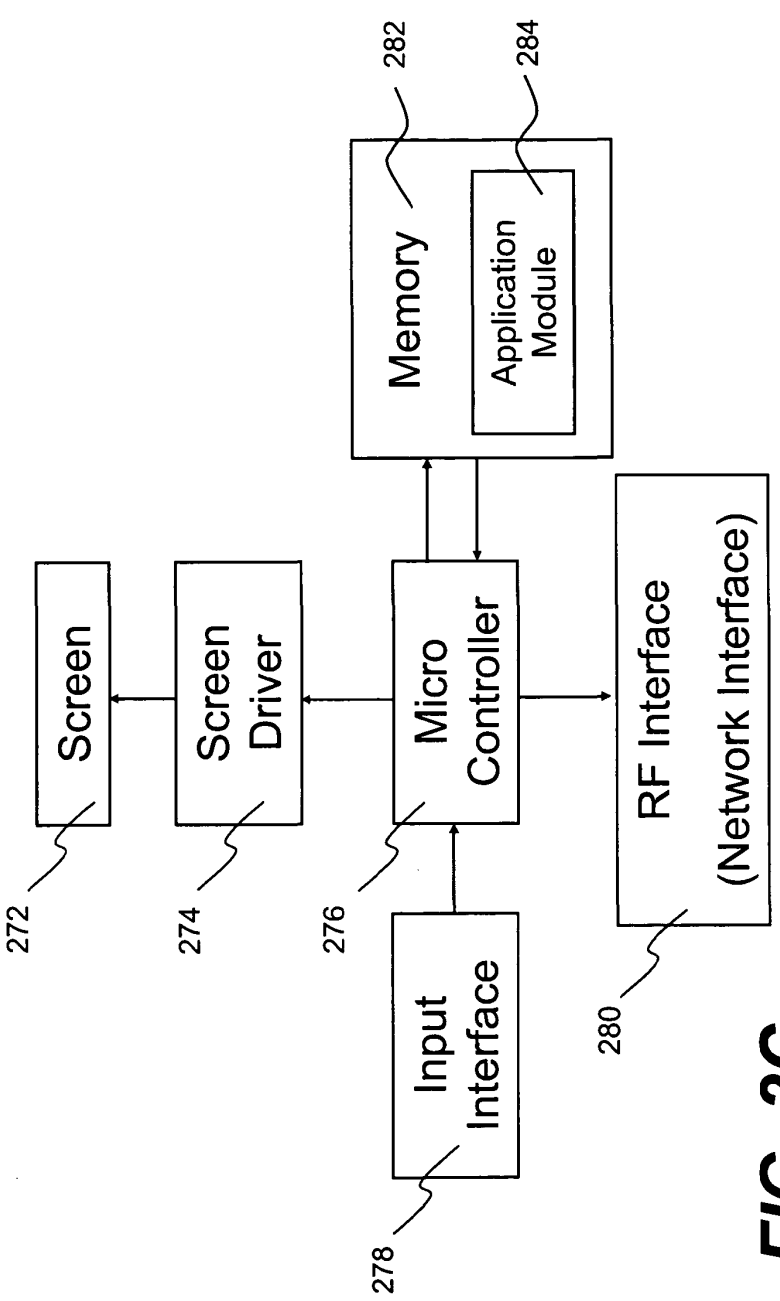

270
282
284
Memory
Application Module
Screen
Screen Driver
Micro Controller
RF Interface (Network Interface)
Input Interface
272
274
276
278
280

FIG. 2C

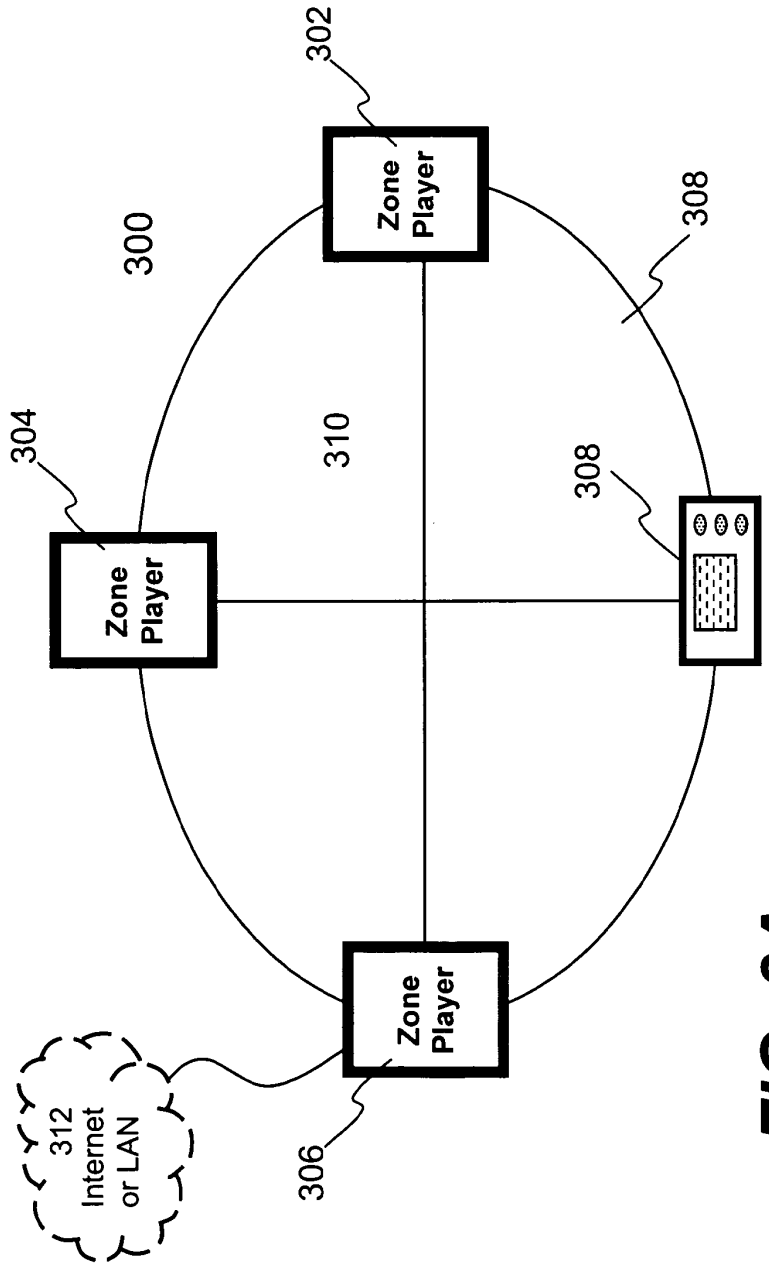

300
302
Zone Player
304
Zone Player
306
Zone Player
308
308
310
312
Internet or LAN

FIG. 3A

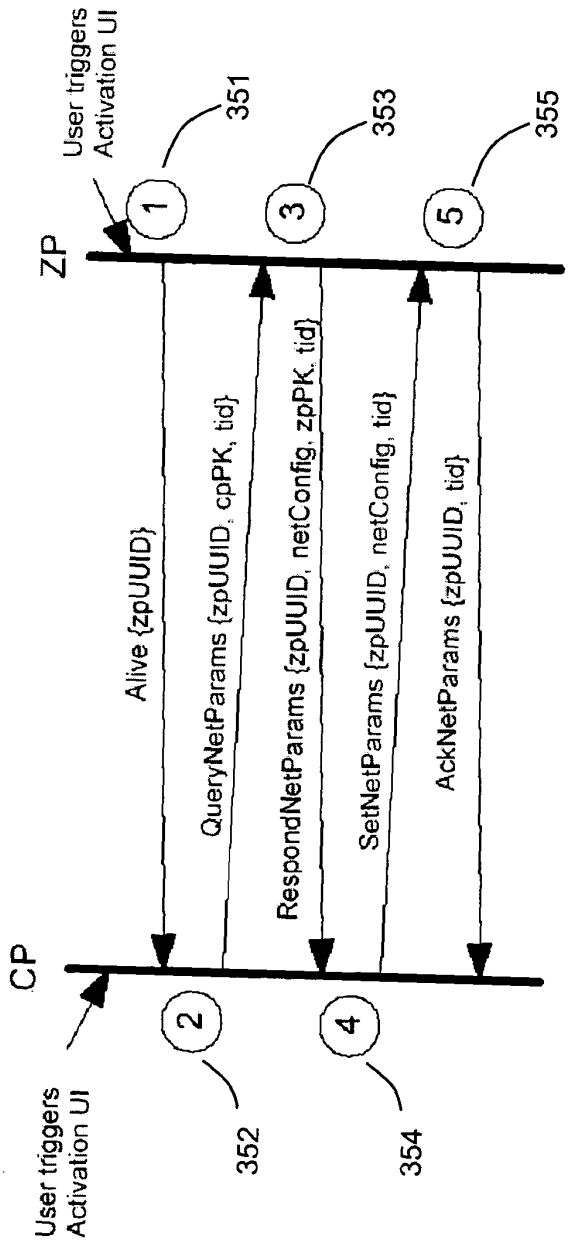

User triggers Activation UI
ZP
1
351
3
353
5
355
Alive {zpUUID}
QueryNetParams {zpUUID, cpPK, tid}
RespondNetParams {zpUUID, netConfig, zpPK, tid}
SetNetParams {zpUUID, netConfig, tid}
AckNetParams {zpUUID, tid}
CP
2
352
4
354
User triggers Activation UI

FIG. 3B

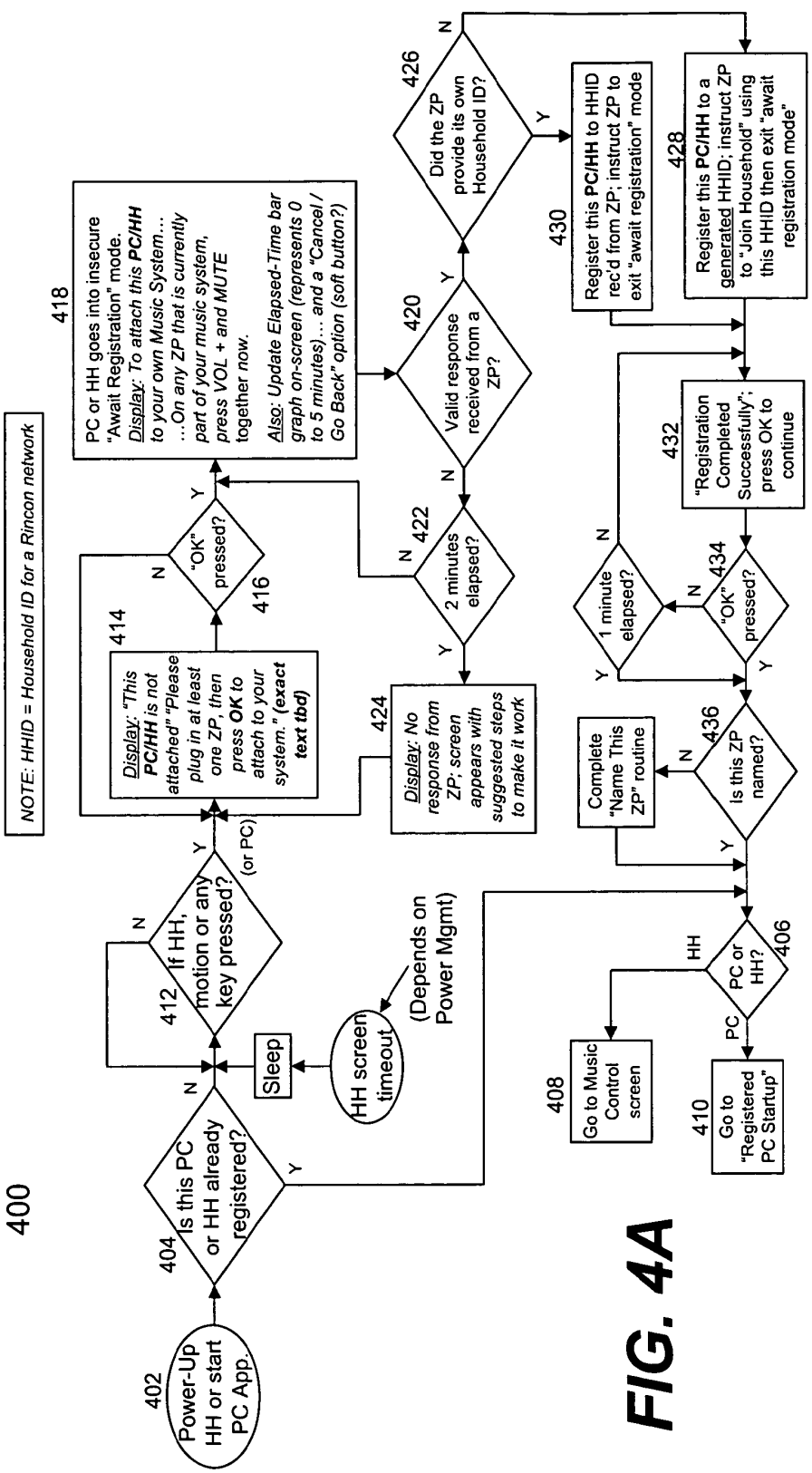

400
NOTE: HHID = Household ID for a Rincon network
402
Power-Up HH or start PC App.
404
Is this PC or HH already registered?
N
Y
Sleep
HH screen timeout
(Depends on Power Mgmt)
412
If HH, motion or any key pressed?
N
Y
(or PC)
414
Display: "This PC/HH is not attached" "Please plug in at least one ZP, 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
428
Register this PC/HH to a generated HHID; instruct ZP to "Join Household" using this HHID then exit "await registration mode"
430
Register this PC/HH to HHID rec'd from ZP; instruct ZP to exit "await registration" mode
432
"Registration Completed Successfully"; press OK to continue
434
"OK" pressed?
N
Y
1 minute elapsed?
N
Y
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

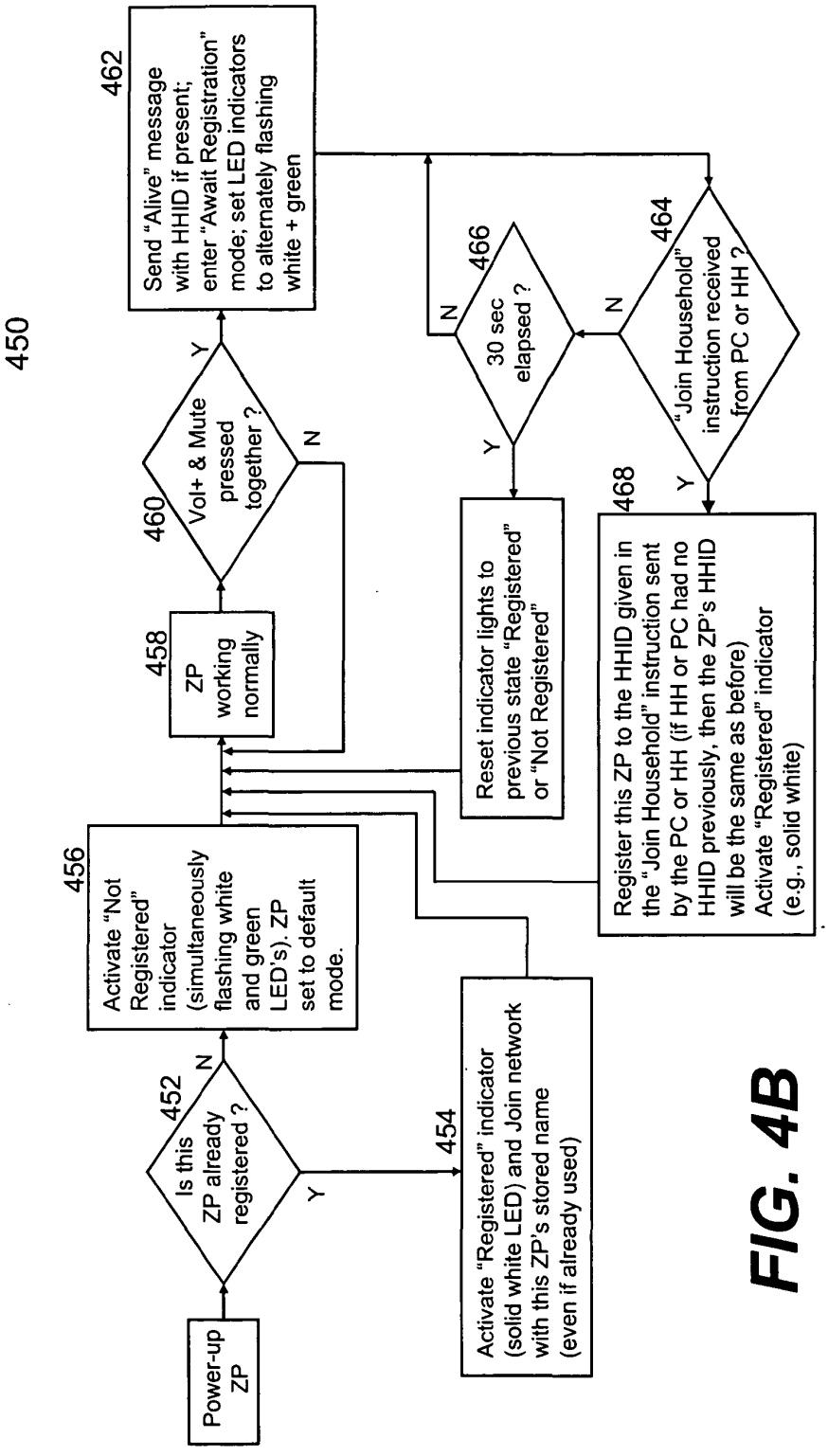
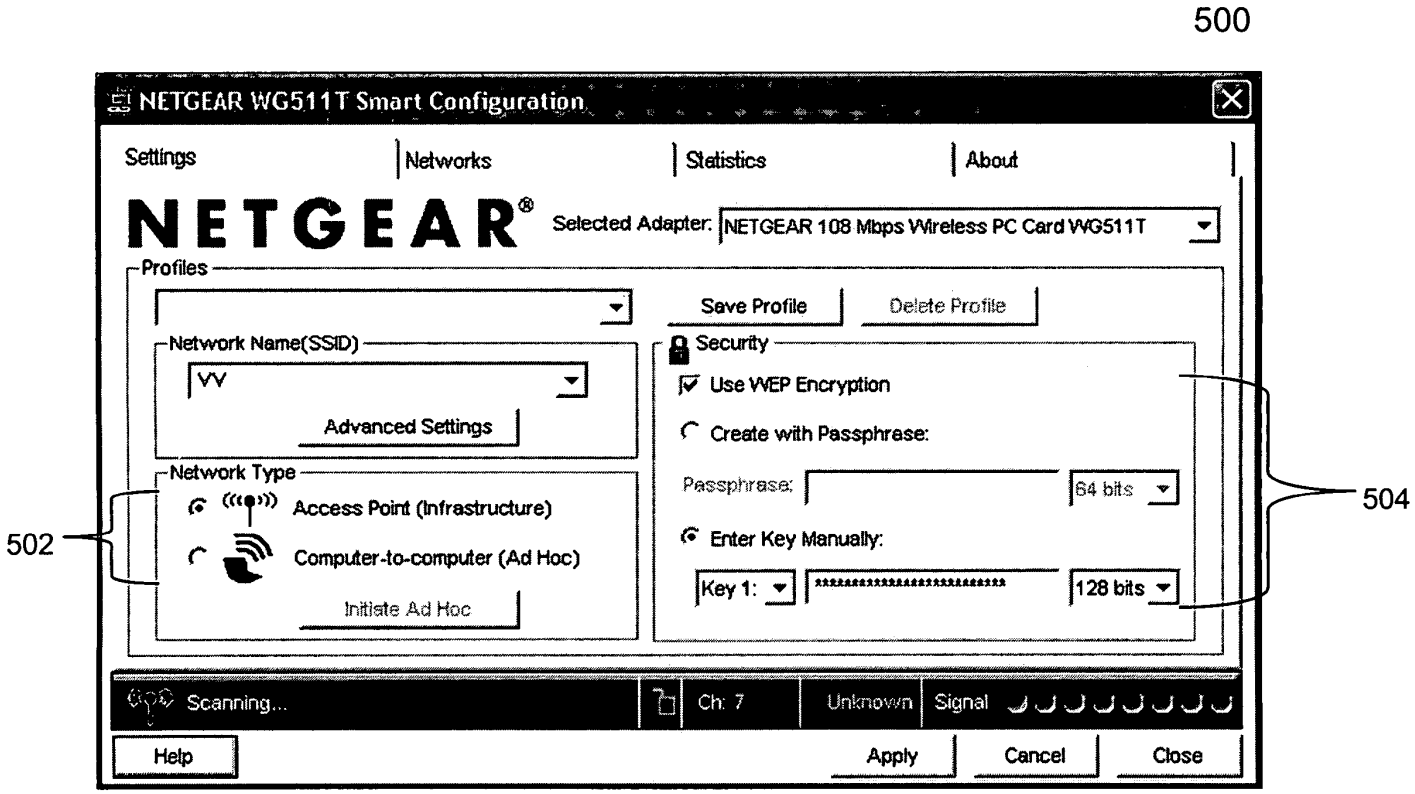

450
Power-up ZP
452
Is this ZP already registered ?
N
Y
454
Activate "Registered" indicator (solid white LED) and Join network with this ZP's stored name (even if already used)
456
Activate "Not Registered" indicator (simultaneously flashing white and green LED's). ZP set to default mode.
458
ZP working 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
Reset indicator lights to previous state "Registered" or "Not Registered"
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)

FIG. 4B



(Prior Art)

FIG. 5

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.

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.

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 **to the 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
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Attorney Docket Number:	05-0601-CON0319A
Receipt Date:	11-MAR-2019
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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	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:					
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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:					
Information:					
		Total Files Size (in bytes):	2393557		

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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.
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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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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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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

Signature: DocuSigned by: Nicholas A.J. Millington D19DFCAD2158435...

Date (Optional): 2016-07-28

/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:

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☐ 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.

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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/

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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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



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)

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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

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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

GRANTED

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

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

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

NOT GRANTED

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

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 16/298,515

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	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
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.

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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 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

PTOL-90A (Rev. 04/07)

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	

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

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	2447
	Examiner Name	HWANG, Joon H.
	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]

EFS Web 2.1.18

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

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

	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).	

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

	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.	

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	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.**

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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 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:	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)

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	EXHIBIT9_INVALIDITY_CHARTS_9202509_PATENT.PDF	739299 ea1358c10604cadbbe7a27db53a7129422cd8691	no	163

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2	Non Patent Literature	PRELIMINARY_IDENTIFICATION_OF_PRIOR_ART_REFERENCES_7-29-2016.PDF	82819 4add8057fc931ee4f2e33b7b6eca95f4d16277e3	no	5
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3	Non Patent Literature	DEFENDANTS_BRIEF_IN_SUPPORT_10-12-16-.PDF	262459 3a022330e79f6decf7f0854059b69b8c079e1e40	no	24
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4	Non Patent Literature	DEFENDANTS_OPPOSITION_TO_SONOS_MOTION_TO_STRIKE_10-3-16-.PDF	241836 4a04c692f4446c75e6b4d3fe7df18bd654e99ca5	no	15
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5	Non Patent Literature	EXHIBIT_A_DEFENDANTS_SECOND_AMENDED_ANSWER_10-12-2016-.PDF	205207 58a1bf313d6cfa29f58406b75452f22e72c918f8	no	43
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6	Non Patent Literature	EXHIBIT_B_DEFENDANTS_SECOND_AMENDED_ANSWER_10-12-2016-.PDF	214180 64c9ae7bd0902f3239b69afef3a9114de5b83b68	no	43
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7	Non Patent Literature	OPENING_BRIEF_8-1-16-.PDF	226573 beec3e4ce8c3e8ff4a4681061db68a40c9f4a795	no	11
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8	Non Patent Literature	ORDER_10-7-16-.PDF	74064 d2f3ea2b3904fcf029ca3154461997729888 9185	no	2
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9	Non Patent Literature	OPPOSITION_TO_MOTION_FOR_LEAVE_8-26-16-.PDF	228973 3a1723674bfa2d69cce051b2d020bba5ed0a81c9	no	25
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10	Non Patent Literature	REDLINED_EXHIBIT_B_FIRST_AMENDED_ANSWER_TO_THIRD_AMENDED_COMPLAINT_8-1-16-.PDF	284998 4f7752b72d03ac60cf52af7a6da625b4468cb836	no	27
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11	Non Patent Literature	SONOS_NO14-1330-RGA_DI_206-1_28PAGES.PDF	299059 9f2e542b1e6cf27946890f1b973e4007410a5651	no	28
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38	Non Patent Literature	UNIVERSAL_PLUG_AND_PLAY_DEVICE_UPNP_2000_V1_54PAGES.PDF	3033111 4fc9201973ba3a7a92f039585f4854f1d7e14207	no	54
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45	Non Patent Literature	UPNP_DESIGN_BY_EXAMPLE_DM_0401307-818_511PAGES_PART2.PDF	22683681 f6ac1bf7a33586153193c38fc4b7c7b80e4441f0	no	45
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54	Non Patent Literature	UPNP_DESIGN_BY_EXAMPLE_DM_0401307-818_511PAGES_PART11.PDF	18348888 6dde44998aaab5c5903fcec3b8bf7ab69236d5c1	no	40
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57	Non Patent Literature	WANCOMMONINTERFACE_DM 0401820-43_24PAGES.PDF	23867914 6355aec41da9c1e0e40e4a0f73f3e9652e8cd59d	no	24
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58	Non Patent Literature	WAVELAN_AGERE_AVAGO0003_V2.PDF	145160 6b7c967604f94696b64ff3f42ffb38ea007f73e6	no	4
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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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	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	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.	
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	Application Number	16298515
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	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.
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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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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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1	Non Patent Literature	13907666_FOA_06-05-14.PDF	407723 a7adfe78c33770836235c29d95ed63b90b3726d3	no	12

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

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	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.
	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

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	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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	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	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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36	Non Patent Literature	AUDIOTRONSETUPGUIDE_V2.PDF	11297159 9b29308bcec2143809f7700841126c88fde3def5	no	38
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37	Non Patent Literature	AUTOMATIC_PROFILE_AGERE_AVAGO0013_V2.PDF	124603 663ce3417ade29bfbfa0c399c438a5088d88eeea	no	2
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41	Non Patent Literature	AXIS_P8221_USER_MANUAL.PDF	1617965 e36f6b1a94da0269a2e216c77c7236c2a20613ea	no	41
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42	Non Patent Literature	BALDWIN_2009_REFERENCE.PDF	903362 8422d4841e69a7c92fd17aabe0be48a687b08db3	no	4
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43	Non Patent Literature	BALFANZ_NETWORK-IN-A-BOX_2002.PDF	20050777 8555b764fc5668318395a210ed17da20b1b9b052	no	23
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44	Non Patent Literature	BALFANZ_TALKING-TO-STRANGERS_2002.PDF	23823515 73dcb39daca45ca0b57755da29a2904ca62a7ac1	no	13
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47	Non Patent Literature	BENSLIMANE_PROC26THEUROMICROCONF_2000_1_456.PDF	533608 9b35b33e251fc13b27574840 0f7086bdcd2d43b6	no	8
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48	Non Patent Literature	BIERSACK_IEEEINTLCONFERENCE_MULTIMEDIACOMPUTINGSYSTEMS_1996_372.PDF	57025 2464b953323718a2934be59ef3f5cea322b4858f	no	10
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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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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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	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	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.	
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	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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	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

	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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	Examiner Name	HWANG, Joon H.
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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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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:	35586302
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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1	Non Patent Literature	WAVELAN_WIRELESS_INTEGRATION_AVAGO0054_V2.PDF	504855 17855728d251dc453bc0877e48a3ea07a40fddf9	no	2

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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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	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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	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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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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34	Non Patent Literature	MEDIARENDERER_1_2002_12PAGES.PDF	314359 1c7959498a37654aae2ed1b35a5e50d8542cbe9f	no	12
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35	Non Patent Literature	ROLAND_ANNOUNCES_BA-55_SYSTEM_2011-2PAGES-V2.PDF	79061 ef1329059c0485858454518ac822db84467f8de2	no	2
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36	Non Patent Literature	ROTHERMEL_1997.PDF	6385230 b89e3b45c6d27fc1112b421bfc52f69ef8a01cf9	no	26
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37	Non Patent Literature	ROTHERMEL_1995.PDF	16064216 0ac6e2db1ebe6021aa90018bcbab0bf22d7a8260	no	12
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38	Non Patent Literature	ROTHERMEL_ADAPTIVESTREAMSYNCPROTOCOL_1995.PDF	196987 92a695bed4cd699cedf0997a8280f81a7a367e4f	no	13
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39	Non Patent Literature	ROTHERMEL_CLOCKHIERARCHIES_23PAGES.PDF	78220 a6e31f12d2f8cfce12cb470f2b99b662037e1e55	no	23
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43	Non Patent Literature	SCHMANDT_2004.PDF	199894 556fdacc53c12d34b9c9196ee4b78a7a456fb346	no	11
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44	Non Patent Literature	SCHULZRINNE_NETWORKWORKINGGROUP_1996_75PAGES.PDF	8036174 bfeb2bc7a446bfe6aab4dfe8d2cfad0da2489d05	no	75
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45	Non Patent Literature	SCHULZRINNE_NETWORKWORKINGGROUP_2003_89PAGES.PDF	4487042 1142ac6c5ddf0fba5d2dc7a1da46ec1aa944e1fd	no	89
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46	Non Patent Literature	SIMPLE_NETWORK_TIME_PROTOCOL_SNTPI_DM_0397537-46_10PAGES.PDF	1304386 e1bb0ef63b2a1e32160157535e94dde433da0b36	no	10
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47	Non Patent Literature	SIMPLE_NETWORK_TIME_PROTOCOL_SNTPII_DM_0397663-76_14PAGES.PDF	1912668 71a466552a1f5f7ec535c943864340aad46469a5	no	14
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48	Non Patent Literature	SIMPLE_SERVICE_DISCOVERY_PROTOCOL_1999_24PAGES.PDF	58504 acb0377e0f99322881679643fdd6b6802aa4d6d4	no	24
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49	Non Patent Literature	SONOS_V_DM_SUPP_OPPOSITION_BRIEF_INCLUDING_EXHIBITS_17MARCH2017_23PAGES-V2.PDF	1056821 c3f7de769b54eb0fd2deabbad9eaad9545a4bf26	no	23
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50	Non Patent Literature	SONOSVDM_EXPERT_REPORT-KESAN-776_PAGES.PDF	17280627 0947216a0036b40ab9b5312f78b259453463962d	no	776
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51	Non Patent Literature	COMPLAINT_10-21-2014-V2.PDF	250649 47f39c309351cca44580b07edd5d687fce610f76	no	20
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52	Information Disclosure Statement (IDS) Form (SB08)	05-0601-CON0319A_8_IDS_20190329095315.pdf	1056005 a9b056ddd57f43d6109eb25df9b3c4e25cf37a19	no	8
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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)		
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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	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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	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	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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	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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	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

	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.	

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

	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.	
	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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	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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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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9	Non Patent Literature	SONOSVDM_EXHIBIT_A_DEFENDANTS_FIRST_AMENDED_ANSWER_TO_THIRD_AMENDED_COMPLAINT_8-1-16.PDF	423431 bc2246e688f8079633e75204634688809d9083e09	no	26
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10	Non Patent Literature	SONOSVDM_EXHIBIT_A_DEFENDANTS_SECOND_AMENDED_ANSWER_9-9-16-V2.PDF	553438 18622215e033ec1ac7af50a073346b6482b080d1	no	88
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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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	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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	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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	Attorney Docket Number	05-0601-CON0319A

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	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.	
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	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.	
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	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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Electronic Acknowledgement Receipt	
EFS ID:	35605180
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:	17:26:49
Application Type:	Utility under 35 USC 111(a)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	14184526_NOA_7-13-15.PDF	874907 d31da685d555a19490ed36cc426930b1e08e9cf0	no	22
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45	Non Patent Literature	90013882_NOTICE_OF_INTENT_TO_ISSUE_REXAM_CERT_04-0601-REXAM_8-3-17_20PAGES.PDF	654040 b0bd894767761a5b914bd3b0fa9071b0426ece91	no	20
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National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

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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	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
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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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	Art Unit	2447
	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

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

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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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55	Non Patent Literature	FALLER_2004.PDF	17559506 0ea32c9411b22a201ea0e32690c0f25ea5628512	no	12
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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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	Attorney Docket Number	05-0601-CON0319A

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	Attorney Docket Number	05-0601-CON0319A

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	Art Unit	2447
	Examiner Name	HWANG, JOON H
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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 27 May 2014, issued in connection with U.S. Patent Application No. 14/186850, filed 21 February 2014, 13 pages.	
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	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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	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
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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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30	Non Patent Literature	WEBDESIGN_IN_A_NUTSHELL_678PAGES_PART1OF2.PDF	7695780 18f5a3aab078bc1da1312108592fb28d2afd46c8	no	300
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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	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.	
	4	Non-final Office Action mailed on 24 October 2014, issued in connection with U.S. Patent Application No. 13/435776, filed 30 March 2012, 14 pages.	
	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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	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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	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.	
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	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.	
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	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.	
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	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

	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.
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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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	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.	
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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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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 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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	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.	
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	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.	
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	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.	
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	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.	
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	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.	
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	Attorney Docket Number	05-0601-CON0319A

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	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.	
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	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.	
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	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.	
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	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.	
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	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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	Art Unit	2447
	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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EFS ID:	35588864
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:	17:22:24
Application Type:	Utility under 35 USC 111(a)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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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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	2	20140108929		2014-04-17	GARMARK; Sten [Se] et al.	
	3	20140123005		2014-05-01	FORSTALL; Scott J [Us] et al.	
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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

	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.	
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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

	17	20140323036		2014-10-30	DALEY; Michael J. et al.	
	18	20140344689		2014-11-20	SCOTT; Mark David [Us] et al.	
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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2447
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	Attorney Docket Number	05-0601-CON0319A

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	1	FOUT, Tom, "Universal Plug and Play (UPnP) Client Support," Microsoft, August 2001, 18 pages.	
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	Attorney Docket Number	05-0601-CON0319A

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	4	GASTON et al., "Methods for Sharing Stereo and Multichannel Recordings Among Planetariums," Audio Engineering Society Convention Paper 7474, 2008, 15 pages.	
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	Attorney Docket Number	05-0601-CON0319A

	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.	
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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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	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.	
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	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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	3	20020143998		2002-10-03	RAJAGOPAL; Priya et al.	
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	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.	
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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	
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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	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.	
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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	
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	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.	
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	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.	
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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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	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.	
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	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.	
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	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.	
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	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.	
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	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.	
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	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.	
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	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.	
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	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.	
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	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.	
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	190	20070043847		2007-02-22	CARTER; Harry N. et al.	
	191	20070047712		2007-03-01	GROSS; Kevin P. et al.	
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	194	20070087686		2007-04-19	HOLM; Jukka [Fi] et al.	
	195	20070142022		2007-06-21	MADONNA; Robert P. et al.	
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	200	20070192156		2007-08-16	GAUGER; Derek K.	
	201	20070249295		2007-10-25	UKITA; Yoshitaka et al.	
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	206	20080007649		2008-01-10	BENNETT; James D.	
	207	20080007650		2008-01-10	BENNETT; James D.	
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	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.	
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	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.	
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	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.	
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	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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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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Art Unit	2447
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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

	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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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		

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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.

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

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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.

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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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

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EXAMINER	
MADAMBA, GLENFORD J	

ART UNIT	PAPER NUMBER
2451	

NOTIFICATION DATE	DELIVERY MODE
05/30/2019	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

PTOL-90A (Rev. 04/07)

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

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*		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					
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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

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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

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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	2447
Examiner Name	HWANG, Joon H.
Attorney Docket Number	05-0601-CON0319A

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

EXAMINER SIGNATURE			
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
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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

CERTIFICATION STATEMENT

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

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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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	2	20140108929		2014-04-17	GARMARK; Sten [Se] et al.	
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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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	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.	
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	12	20140273859		2014-09-18	LUNA; Michael Edward Smith [Us] et al.	
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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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	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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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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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.

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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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	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.		

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	2447
	Examiner Name	HWANG; Joon H
	Attorney Docket Number	05-0601-CON0319A

	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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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

[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	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.**

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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.

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

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

5/ 27/ 2019 2:16:28 PM
C:\ Users\ gmadamba\ Documents\ EAST\ Workspaces\ 16298515_2019-05-02_CON of 15091113.wsp

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

Doc code: IDS
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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							

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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	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

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

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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	58443

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Attorney Docket Number	05-0601-CON0319A

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	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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	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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	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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	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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	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.	
	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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	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.	
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	7	WI-DK Release 2 WaveLan END Reference Driver for VxWorks, AVAGO0044, Agere Systems, July 2003, 4 pages.	
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	Art Unit	2447
	Examiner Name	HWANG, Joon H.
	Attorney Docket Number	05-0601-CON0319A

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	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.	
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Name/Print	Michael E.Coyne	Registration Number	58443

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	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.	
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	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.	
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	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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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	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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	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.	
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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.	
	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.	
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	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.	
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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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	Examiner Name	HWANG, JOON H
	Attorney Docket Number	05-0601-CON0319A

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

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

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

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Art Unit	2447
Examiner Name	HWANG, JOON H
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	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.	
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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.	
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	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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Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	05/27/2019

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[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)		
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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

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

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U.S.PATENTS Remove

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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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Name/Print	Michael E. Coyne	Registration Number	58443

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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

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

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

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

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	MADAMBA, Glenford J.
	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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	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.	

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[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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	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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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.

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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)	2019-08-05
Name/Print	Michael E. Coyne	Registration Number	58443

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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:

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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

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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

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Owner	Percent Interest
Sonos, Ind.	100%

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16298542 filed on 03/11/2019

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Signature	/Brandon J. Kennedy/
Name	Brandon J. Kennedy

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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

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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		

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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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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	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						

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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]

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

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	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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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:	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

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National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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

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

	1	Non-Final Office Action mailed on 04 September 2019, issued in connection with U.S. Patent Application No. 15/091113, filed on 5 April 2016, 23 pages.	
	2	Notice of Allowance mailed on 26 August 2019, issued in connection with U.S. Patent Application No. 16/298,542, filed on 11 March 2019, 8 pages.	

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Examiner Signature		Date Considered	

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See attached certification statement.

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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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Receipt Date:	24-SEP-2019
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Time Stamp:	16:23:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

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Payment was successfully received in RAM	$240
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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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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

Doc Code: IFEE PTOL/85B-EFS

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	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.

WEB IFEE 1.0

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

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.

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. _____

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 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
	16/298,515	Millington et al.
	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

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	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 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451 (Primary Examiner)	16 September 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 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

☐ 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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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
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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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	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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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.

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

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				

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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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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

	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
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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)	2019-08-05
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

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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

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

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PTOL-90A (Rev. 04/07)

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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

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

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/GLENFORD J MADAMBA/
Primary Examiner, Art Unit 2451

PTO-90C (Rev.04-03)

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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	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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EFS Web 2.1.18

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

	1	Non-Final Office Action mailed on 04 September 2019, issued in connection with U.S. Patent Application No. 15/091113, filed on 5 April 2016, 23 pages.	
	2	Notice of Allowance mailed on 26 August 2019, issued in connection with U.S. Patent Application No. 16/298,542, filed on 11 March 2019, 8 pages.	

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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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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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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

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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.

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)
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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	

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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	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.	

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

	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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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.	

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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.**

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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 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)).

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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
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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 orde 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

EFS - Web 2.1.16

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 t 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 estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Tim will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions fo 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.

Privacy Act Statement

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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 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	

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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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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.

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. _____

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 (Assistant Examiner) (Date)	**Total Claims Allowed:** 20	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451 (Primary Examiner) 11 November 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

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 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451 (Primary Examiner)	11 November 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

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

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

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

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
	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

	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.	

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

	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.	

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

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	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

	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.	

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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.

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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

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.**

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

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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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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

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

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
Warnings:					
Information:					
			Total Files Size (in bytes):	113540	

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

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	None				

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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						

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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]

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.	

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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)	2019-11-18
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.

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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		

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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.

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	None				

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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
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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	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	/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/

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):

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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

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

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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.

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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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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 0 day(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):

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