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Application Number	
Filing Date	January 17, 2020
First Named Inventor	Nicholas A.J. Millington
Title	PLAYBACK DEVICE CONNECTION
Art Unit	
Examiner Name	
Attorney Docket Number	05-0601-CON0120

SIGNATURE of Applicant or Patent Practitioner

Signature	/Brandon J. Kennedy/	Date (Optional)	January 17, 2020
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.		

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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

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Sonos, Inc.

☐ Inventor or Joint Inventor (title not required below)
☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
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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 Docusigned by: 50B9ED6B09E7465...	Date (Optional)	9/1/2015
Name	Mark Triplett		
Title	Director, Intellectual Property		

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Docket No.: 05-0601-CON0120)

In re Application of:	)	
	)	Confirmation No.: TBD
Nicholas A.J. Millington et al.	)	
	)	Art Unit: TBD
Application No.: TBD	)	
	)	Examiner: TBD
Filed: January 17, 2020	)	
	)	
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: January 17, 2020

By: /Brandon J. Kennedy/
Brandon J. Kennedy
Registration No.: 67,894
(312) 754-9315

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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 January 17, 2020
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.**

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public 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. 16/298,515, filed on March 11, 2019; 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, which is now expired. Each of the applications listed above is hereby incorporated by reference in its entirety.

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.

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

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

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

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Office Action Summary	Application No. 16/746,294	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 17 January 2020.

☐ 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. 16/746,294	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	Country	Name	CPC Classification
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/746,294	Millington et al.
	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

CPC - Searched*		
Symbol	Date	Examiner
H04L41/22; H04W12/003; G06F3/0481; G06F3/0482; G06F3/04842; G06F3/04847; H04L12/28; H04L12/2803; H04L12/2807; H04L12/2809; H04L41/0803; H04L41/0809; H04L63/10; H04L63/20; H04L65/60; H04L67/02; H04L67/10; H04L67/141; H04W12/04; H04W12/08	02/14/2020	GJM

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
709	222	02/14/2020	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	02/14/2020	GJM
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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Application Number	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2414
Examiner Name	TBD
Attorney Docket Number	05-0601-CON0120

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	1	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.	
	2	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.	
	3	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.	
	4	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.	
	5	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.	
	6	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Preliminary Identification of Prior Art References, provided July 29, 2016, 5 pages.	
	7	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.	
	8	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.	
	9	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.	
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	15	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 206-1, Transcript of 101 Hearing (Nov. 28, 2016) (28 pages).	
	16	Sonos, Inc. v. D&M Holdings (No. 14-1330-RGA), DI 207, PUBLIC Joint Claim Construction Brief (Nov. 30, 2016) (88 pages).	
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	24	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint - Exhibit A, filed October 14, 2019, 3 pages.	
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	26	Sonos, Inc. v. Lenbrook Industries Limited et al., Defendants' Answer to Plaintiff's Complaint - Exhibit D, filed October 14, 2019, 36 pages.	
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	30	Sonos System Overview, Version 1.0, July 2011, 12 pages.	
	31	Sony: AIR-SA 50R Wireless Speaker, Copyright 2009, 2 pages.	
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Name/Print	Brandon J. Kennedy	Registration Number	67894

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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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	35	7185090		2007-02-27	KOWALSKI; John Michael. et al.	
	36	7187947		2007-03-06	WHITE; Russell W. et al.	
	37	7188353		2007-03-06	CRINON; Regis J.	
	38	7197148		2007-03-27	NOURSE; James D. et al.	
	39	7206367		2007-04-17	MOORE; Daniel L. [Us] et al.	
	40	7206618		2007-04-17	LATTO; Antonio T. et al.	
	41	7206967		2007-04-17	MARTI; Philippe. et al.	

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	42	7209795		2007-04-24	SULLIVAN; Gary E. et al.	
	43	7218708		2007-05-15	BEREZOWSKI; Andrew G. et al.	
	44	7218930		2007-05-15	KO; Ming-Chih. et al.	
	45	7236739		2007-06-26	CHANG; Chin-Chi [Tw] et al.	
	46	7236773		2007-06-26	THOMAS; Graham.	
	47	7251533		2007-07-31	YOON; Hong S. et al.	
	48	7257398		2007-08-14	UKITA; Yoshitaka. et al.	
	49	7260616		2007-08-21	COOK; Fred S.	
	50	7263070		2007-08-28	DELKER; Jason. et al.	
	51	7263110		2007-08-28	FUJISHIRO; Yoshiya.	
	52	7269338		2007-09-11	JANEVSKI; Angel.	

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	53	7277547		2007-10-02	DELKER; Jason R. et al.	
	54	7286652		2007-10-23	AZRIEL; Gad. et al.	
	55	7289631		2007-10-30	ISHIDOSHIRO; Takashi.	
	56	7293060		2007-11-06	KOMSI; Asko.	
	57	7295548		2007-11-13	BLANK; William Thomas [Us] et al.	
	58	7305694		2007-12-04	COMMONS; Christopher. et al.	
	59	7308188		2007-12-11	NAMATAME; Kazushi.	
	60	7310334		2007-12-18	FITZGERALD; Cary. et al.	
	61	7312785		2007-12-25	TSUK; Robert W. et al.	
	62	7313384		2007-12-25	MEENAN; Patrick. et al.	
	63	7313593		2007-12-25	PULITO; Brian. et al.	

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	64	7319764		2008-01-15	REID; Glenn. et al.	
	65	7321784		2008-01-22	SERCEKI; Zeljko John. et al.	
	66	7324857		2008-01-29	GODDARD; Mark D.	
	67	7330875		2008-02-12	PARASNIS; Shashank Mohan. et al.	
	68	7333519		2008-02-19	SULLIVAN; Gary E. et al.	
	69	7356011		2008-04-08	WATERS; Christopher J. F. et al.	
	70	7359006		2008-04-15	XIANG; Shuhua. et al.	
	71	7366206		2008-04-29	LOCKRIDGE; Terry Wayne. et al.	
	72	7372846		2008-05-13	ZWACK; Eduard.	
	73	7383036		2008-06-03	KANG; Sung H. et al.	
	74	7391791		2008-06-24	BALASSANIAN; Edward. et al.	

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	75	7392102		2008-06-24	SULLIVAN; Gary E. et al.	
	76	7392481		2008-06-24	GEWICKEY; Greg. et al.	
	77	7394480		2008-07-01	SONG; Young-Joong.	
	78	7400644		2008-07-15	SAKAMOTO; Ichiro. et al.	
	79	7412499		2008-08-12	CHANG; Chun-Shi. et al.	
	80	7428310		2008-09-23	PARK; Jeong-Hyun.	
	81	7430181		2008-09-30	HONG; Jay Wu.	
	82	7433324		2008-10-07	SWITZER; David. et al.	
	83	7434166		2008-10-07	ACHARYA; Shrikant. et al.	
	84	7457948		2008-11-25	BILICKSA; Carl. et al.	
	85	7469139		2008-12-23	VAN DE GROENENDAAL; Joannes G.	

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	86	7472058		2008-12-30	TSENG; Wei-Hsin. et al.	
	87	7474677		2009-01-06	TROTT; Christian A.	
	88	7483538		2009-01-27	MCCARTY; William A. et al.	
	89	7483540		2009-01-27	RABINOWITZ; William M. et al.	
	90	7483958		2009-01-27	ELABBADY; Tarek Z. et al.	
	91	7492912		2009-02-17	CHUNG; Yun M. et al.	
	92	7505889		2009-03-17	SALMONSEN; Daniel R. et al.	
	93	7509181		2009-03-24	CHAMPION; Mark.	
	94	7519667		2009-04-14	CAPPS; Stephen P.	
	95	7548744		2009-06-16	OESTERLING; Christopher L. et al.	
	96	7548851		2009-06-16	LAU; Jack. et al.	

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	97	7558224		2009-07-07	SURAZSKI; Luke K. et al.	
	98	7558635		2009-07-07	THIEL; Steffen. et al.	
	99	7571014		2009-08-04	LAMBOURNE; Robert A. et al.	
	100	7574274		2009-08-11	HOLMES; Stephen G.	
	101	7599685		2009-10-06	GOLDBERG; David. et al.	
	102	7606174		2009-10-20	OCHI; Mitsunori. et al.	
	103	7607091		2009-10-20	SONG; Young-Wun. et al.	
	104	7627825		2009-12-01	KAKUDA; Hiroshi.	
	105	7630501		2009-12-08	BLANK; William Tom [Us] et al.	
	106	7631119		2009-12-08	MOORE; Jeffrey C. et al.	
	107	7643894		2010-01-05	BRAITHWAITE; Michael. et al.	

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	108	7653344		2010-01-26	FELDMAN; Theodore Philip. et al.	
	109	7657224		2010-02-02	GOLDBERG; David. et al.	
	110	7657644		2010-02-02	ZHENG; Qinghua.	
	111	7657910		2010-02-02	MCAULAY; Roger. et al.	
	112	7665115		2010-02-16	GALLO; Kevin T. et al.	
	113	7668990		2010-02-23	KRZYZANOWSKI; Paul. et al.	
	114	7669113		2010-02-23	MOORE; Jeff. et al.	
	115	7669219		2010-02-23	SCOTT; Samuel T.Iii. et al.	
	116	7672470		2010-03-02	LEE; Jae-Hoon.	
	117	7675943		2010-03-09	MOSIG; Rudiger. et al.	
	118	7676044		2010-03-09	SASAKI; Toru [Jp] et al.	

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	119	7676142		2010-03-09	HUNG; Andy Chao.	
	120	7688306		2010-03-30	WEHRENBERG; Paul J. et al.	
	121	7689304		2010-03-30	SASAKI; Yoshio.	
	122	7689305		2010-03-30	KREIFELDT; Richard A. et al.	
	123	7702279		2010-04-20	KO; Steve. et al.	
	124	7702403		2010-04-20	GLADWIN; Stephen Christopher. et al.	
	125	7710941		2010-05-04	RIETSCHEL; Johannes. et al.	
	126	7711774		2010-05-04	ROTHSCHILD; Leigh M.	
	127	7720096		2010-05-18	KLEMETS; Anders E.	
	128	7721032		2010-05-18	BUSHELL; John Samuel. et al.	
	129	7742740		2010-06-22	GOLDBERG; David. et al.	

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	130	7743009		2010-06-22	HANGARTNER; Rick. et al.	
	131	7746906		2010-06-29	JINZAKI; Akira. et al.	
	132	7756743		2010-07-13	LAPCEVIC; Thomas G.	
	133	7761176		2010-07-20	BEN-YAACOV; Yaacov. et al.	
	134	7765315		2010-07-27	BATSON; James D. et al.	
	135	7793206		2010-09-07	LIM; Seh E. et al.	
	136	7827259		2010-11-02	HELLER; David. et al.	
	137	7831054		2010-11-09	BALL; Steven J. et al.	
	138	7835689		2010-11-16	GOLDBERG; David. et al.	
	139	7853341		2010-12-14	MCCARTY; William A. et al.	
	140	7865137		2011-01-04	GOLDBERG; David. et al.	

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	141	7882234		2011-02-01	WATANABE; Mitsuhiro. et al.	
	142	7885622		2011-02-08	KRAMPF; Steven S. et al.	
	143	7907819		2011-03-15	ANDO; Hideo. et al.	
	144	7916877		2011-03-29	GOLDBERG; David. et al.	
	145	7917082		2011-03-29	GOLDBERG; David. et al.	
	146	7933418		2011-04-26	MORISHIMA; Morito.	
	147	7934239		2011-04-26	DAGMAN; Vadim.	
	148	7945143		2011-05-17	YAHATA; Hiroshi. et al.	
	149	7945636		2011-05-17	NELSON; Hortense Kathleen. et al.	
	150	7945708		2011-05-17	OHKITA; Hideki.	
	151	7958441		2011-06-07	HELLER; David [Us] et al.	

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	152	7966388		2011-06-21	PUGACZEWSKI; John T. et al.	
	153	7987294		2011-07-26	BRYCE; Stuart. et al.	
	154	7995732		2011-08-09	KOCH; Robert. et al.	
	155	7996566		2011-08-09	SYLVAIN; Dany. et al.	
	156	7996588		2011-08-09	SUBBIAH; Baranitharan. et al.	
	157	8014423		2011-09-06	THALER; Thomas. et al.	
	158	8015306		2011-09-06	BOWMAN; Timothy D.	
	159	8020023		2011-09-13	MILLINGTON; Nicholas A.J. et al.	
	160	8023663		2011-09-20	GOLDBERG; David.	
	161	8028038		2011-09-27	WEEL; Martin.	
	162	8028323		2011-09-27	WEEL; Martin.	

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	163	8041062		2011-10-18	COHEN; Ephram. et al.	
	164	8045721		2011-10-25	BURGAN; John M. et al.	
	165	8045952		2011-10-25	QURESHEY; Safi. et al.	
	166	8050203		2011-11-01	JACOBSEN; Phillip. et al.	
	167	8050652		2011-11-01	QURESHEY; Safi. et al.	
	168	8055364		2011-11-08	CHAMPION; Mark.	
	169	8064904		2011-11-22	JAIN; Nikhil. et al.	
	170	8074253		2011-12-06	NATHAN; Guy.	
	171	8086752		2011-12-27	MILLINGTON; Nicholas A.J. et al.	
	172	8090317		2012-01-03	BURGE; Benjamin D. et al.	
	173	8103009		2012-01-24	MCCARTY; William A. et al.	

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	174	8111132		2012-02-07	ALLEN; William A. et al.	
	175	8112032		2012-02-07	KO; Steve. et al.	
	176	8116476		2012-02-14	INOHARA; Yuichi.	
	177	8126172		2012-02-28	HORBACH; Ulrich. et al.	
	178	8131389		2012-03-06	HARDWICK; John C. et al.	
	179	8131390		2012-03-06	BRAITHWAITE; Michael. et al.	
	180	8144883		2012-03-27	PDERSEN; Jan A. et al.	
	181	8148622		2012-04-03	ROTHKOPF; Fletcher R. et al.	
	182	8150079		2012-04-03	MAEDA; Kazuhiro. et al.	
	183	8169938		2012-05-01	DUCHSCHER; Rob. et al.	
	184	8170222		2012-05-01	DUNKO; Gregory A.	

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	185	8170260		2012-05-01	REINING; Friedrich. et al.	
	186	8175297		2012-05-08	HO; Harvey. et al.	
	187	8185674		2012-05-22	MOORE; Jeffrey C. et al.	
	188	8194874		2012-06-05	STAROBIN; Bradley M. et al.	
	189	8204890		2012-06-19	GOGAN; Brian [Us] et al.	
	190	8208653		2012-06-26	EO; Kil-Su. et al.	
	191	8214447		2012-07-03	DESLIPPE; Mark H. et al.	
	192	8214740		2012-07-03	JOHNSON; Timothy.	
	193	8214873		2012-07-03	WEEL; Martin.	
	194	8218790		2012-07-10	BULL; William. et al.	
	195	8230099		2012-07-24	WEEL; Martin.	

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	196	8233029		2012-07-31	YOSHIDA; Junji. et al.	
	197	8233648		2012-07-31	SOREK; Noam. et al.	
	198	8234395		2012-07-31	MILLINGTON; Nicholas A. J.	
	199	8239748		2012-08-07	MOORE; Jeff. et al.	
	200	8279709		2012-10-02	CHOISEL; Sylvain. et al.	
	201	8281001		2012-10-02	BUSAM; Vincent R. et al.	
	202	8285404		2012-10-09	KEKKI; Samuli T.	
	203	8290603		2012-10-16	LAMBOURNE; Robert A.	
	204	8300845		2012-10-30	ZUREK; Robert. et al.	
	205	8311226		2012-11-13	LORGEOUX; Mickael. et al.	
	206	8315555		2012-11-20	KO; Steve. et al.	

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	207	8316147		2012-11-20	BATSON; James D. et al.	
	208	8325931		2012-12-04	HOWARD; Damian. et al.	
	209	8326951		2012-12-04	MILLINGTON; Nicholas A. J. et al.	
	210	8340330		2012-12-25	YOON; Eung-Sik. et al.	
	211	8345709		2013-01-01	NITZPON; Hans-Juergen. et al.	
	212	8364295		2013-01-29	BECKMANN; Paul E. et al.	
	213	8370678		2013-02-05	MILLINGTON; Nicholas A. J. et al.	
	214	8374595		2013-02-12	CHIEN; Chih-Ling. et al.	
	215	8407623		2013-03-26	KERR; Duncan. et al.	
	216	8411883		2013-04-02	MATSUMOTO; Keishi.	
	217	8423659		2013-04-16	MILLINGTON; Nicholas A. J.	

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	218	8423893		2013-04-16	RAMSAY; Max Gordon. et al.	
	219	8432851		2013-04-30	XU; Guijin. et al.	
	220	8433076		2013-04-30	ZUREK; Robert. et al.	
	221	8442239		2013-05-14	BRUELLE-DREWS; Christian. et al.	
	222	8457334		2013-06-04	YOON; Eung-Sik. et al.	
	223	8463184		2013-06-11	DUA; Robin.	
	224	8463875		2013-06-11	KATZ; Hagay. et al.	
	225	8473844		2013-06-25	KREIFELDT; Richard A. et al.	
	226	8477958		2013-07-02	MOELLER; Klaus R. et al.	
	227	8483853		2013-07-09	LAMBOURNE; Robert A.	
	228	8509211		2013-08-13	TROTTER; John. et al.	

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	229	8520870		2013-08-27	SATO; Katsuyuki. et al.	
	230	8565455		2013-10-22	WORRELL; Devon. et al.	
	231	8577048		2013-11-05	CHAIKIN; Peter. et al.	
	232	8588949		2013-11-19	LAMBOURNE; Robert A. et al.	
	233	8600084		2013-12-03	GARRETT; James E.	
	234	8601394		2013-12-03	SHEEHAN; Conor. et al.	
	235	8611559		2013-12-17	SANDERS; Christopher.	
	236	8615091		2013-12-24	TERWAL; Remco.	
	237	8639830		2014-01-28	BOWMAN; Timothy D.	
	238	8654995		2014-02-18	SILBER; Michael W. et al.	
	239	8672744		2014-03-18	GRONKOWSKI; Timothy T. et al.	

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	240	8683009		2014-03-25	NG; Stanley. et al.	
	241	8688431		2014-04-01	LYONS; Kenneth S. et al.	
	242	8731206		2014-05-20	PARK; Keun Young.	
	243	8750282		2014-06-10	GELTER; Aaron. et al.	
	244	8751026		2014-06-10	SATO; Teppei. et al.	
	245	8762565		2014-06-24	TOGASHI; Ryuichiro. et al.	
	246	8775546		2014-07-08	MILLINGTON; Nicholas A. J.	
	247	8818538		2014-08-26	SAKATA; Junichiro.	
	248	8819554		2014-08-26	BASSO; Andrea. et al.	
	249	8831761		2014-09-09	KEMP; Thomas. et al.	
	250	8843586		2014-09-23	PANTOS; Roger. et al.	

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	251	8861739		2014-10-14	OJANPERA; Juha P.	
	252	8868698		2014-10-21	MILLINGTON; Nicholas A. J. et al.	
	253	8885851		2014-11-11	WESTENBROEK; Marcel.	
	254	8904066		2014-12-02	MOORE; Jeffrey C. et al.	
	255	8917877		2014-12-23	HAAFF; Olle. et al.	
	256	8930006		2015-01-06	HAATAINEN; Niko.	
	257	8934647		2015-01-13	JOYCE; John. et al.	
	258	8934655		2015-01-13	BREEN; John J. et al.	
	259	8942252		2015-01-27	BALASSANIAN; Edward. et al.	
	260	8942395		2015-01-27	LISSAMAN; Geoff. et al.	
	261	8954177		2015-02-10	SANDERS; Christopher John.	

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	Art Unit	2414
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	28	20020173273		2002-11-21	SPURGAT; Jeffrey Jonathan. et al.	
	29	20020177411		2002-11-28	YAJIMA; Kiyoshi. et al.	
	30	20020181355		2002-12-05	SHIKUNAMI; Juichi. et al.	
	31	20020184310		2002-12-05	TRAVERSAT; Bernard A. et al.	
	32	20020188762		2002-12-12	TOMASSETTI; Stephen Robert. et al.	
	33	20020194260		2002-12-19	HEADLEY; Kent Lawrence. et al.	
	34	20020194309		2002-12-19	CARTER; Harry Nick. et al.	
	35	20030002609		2003-01-02	FALLER; Christof. et al.	
	36	20030008616		2003-01-09	ANDERSON; Lelan S.	
	37	20030014486		2003-01-16	MAY; Gregory J.	
	38	20030018797		2003-01-23	DUNNING; Ted E. et al.	

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	39	20030020763		2003-01-30	MAYER; Theodore. et al.	
	40	20030023741		2003-01-30	TOMASSETTI; Stephen Robert. et al.	
	41	20030035072		2003-02-20	HAGG; Wilhelm.	
	42	20030035444		2003-02-20	ZWACK; Eduard.	
	43	20030041173		2003-02-27	HOYLE; Stephen L.	
	44	20030041174		2003-02-27	WEN; Sayling. et al.	
	45	20030043856		2003-03-06	LAKANIEMI; Ari. et al.	
	46	20030043924		2003-03-06	HADDAD; Semir S. et al.	
	47	20030050058		2003-03-13	WALSH; Rod. et al.	
	48	20030055892		2003-03-20	HUITEMA; Christian. et al.	
	49	20030061428		2003-03-27	GARNEY; John I. et al.	

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	50	20030063528		2003-04-03	OGIKUBO; Takahiko.	
	51	20030063755		2003-04-03	NOURSE; James D. et al.	
	52	20030066094		2003-04-03	VAN DER SCHAAR; Auke Sjoerd. et al.	
	53	20030067437		2003-04-10	MCCLINTOCK; Dale Thomas. et al.	
	54	20030073432		2003-04-17	MEADE; William K.	
	55	20030097478		2003-05-22	KING; James Reynell.	
	56	20030099212		2003-05-29	ANJUM; Farooq. et al.	
	57	20030099221		2003-05-29	RHEE; Sokwoo.	
	58	20030101253		2003-05-29	SAITO; Takayuki. et al.	
	59	20030103088		2003-06-05	DRESTI; Mauro. et al.	
	60	20030109270		2003-06-12	SHORTY; Peter.	

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	61	20030110329		2003-06-12	HIGAKI; Nobuo. et al.	
	62	20030123853		2003-07-03	IWAHARA; Yuji. et al.	
	63	20030126211		2003-07-03	ANTTILA; Akseli. et al.	
	64	20030135822		2003-07-17	EVANS; Glenn F.	
	65	20030157951		2003-08-21	HASTY; William V.	
	66	20030167335		2003-09-04	ALEXANDER; Bruce.	
	67	20030172123		2003-09-11	POLAN; Jeffrey S. et al.	
	68	20030179780		2003-09-25	WALKER; Anthony. et al.	
	69	20030182254		2003-09-25	PLASTINA; Daniel. et al.	
	70	20030185400		2003-10-02	YOSHIZAWA; Kazuhiko. et al.	
	71	20030187657		2003-10-02	ERHART; George W. et al.	

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	72	20030195964		2003-10-16	MANE; Pravin D.	
	73	20030198254		2003-10-23	SULLIVAN; Gary E. et al.	
	74	20030198255		2003-10-23	SULLIVAN; Gary E. [Us] et al.	
	75	20030198257		2003-10-23	SULLIVAN; Gary E. et al.	
	76	20030200001		2003-10-23	GODDARD; Mark D. [Us] et al.	
	77	20030204273		2003-10-30	DINKER; Darpan. et al.	
	78	20030204509		2003-10-30	DINKER; Darpan. et al.	
	79	20030210796		2003-11-13	MCCARTY; William A. et al.	
	80	20030212802		2003-11-13	RECTOR; Dusty D. et al.	
	81	20030219007		2003-11-27	BARRACK; Craig. et al.	
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	84	20030231208		2003-12-18	HANON; Kris. et al.	
	85	20030231871		2003-12-18	USHIMARU; Chikara.	
	86	20030235304		2003-12-25	EVANS; Glenn F. et al.	
	87	20040001106		2004-01-01	DEUTSCHER; John. et al.	
	88	20040001484		2004-01-01	OZGUNER; Tolga.	
	89	20040001591		2004-01-01	MANI; Murali. et al.	
	90	20040002938		2004-01-01	DEGUCHI; Yuichiro.	
	91	20040008852		2004-01-15	ALSO; Masaru. et al.	
	92	20040010727		2004-01-15	FUJINAMI; Yasushi.	
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	94	20040014426		2004-01-22	MOORE; Richard A.	
	95	20040015252		2004-01-22	AISO; Masaru. et al.	
	96	20040019497		2004-01-29	VOLK; Andrew R. et al.	
	97	20040019807		2004-01-29	FREUND; Gregor P. et al.	
	98	20040019911		2004-01-29	GATES; Matthijs A. et al.	
	99	20040023697		2004-02-05	KOMURA; Tatsumi.	
	100	20040024478		2004-02-05	HANS; Mathieu Claude. et al.	
	101	20040024925		2004-02-05	CYPHER; Robert E. et al.	
	102	20040027166		2004-02-12	MANGUM; Wayne G. et al.	
	103	20040032348		2004-02-19	LAI; Angela C. W. et al.	
	104	20040032421		2004-02-19	WILLIAMSON; Charles G. et al.	

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	106	20040041836		2004-03-04	ZANER; Melora. et al.	
	107	20040042629		2004-03-04	MELLONE; Charles M. et al.	
	108	20040044742		2004-03-04	EVRON; Roni. et al.	
	109	20040048569		2004-03-11	KAWAMURA; Harumi.	
	110	20040059842		2004-03-25	HANSON; Mark L. et al.	
	111	20040059965		2004-03-25	MARSHALL; Kenneth R. et al.	
	112	20040066736		2004-04-08	KROEGER; Brian William.	
	113	20040075767		2004-04-22	NEUMAN; Darren. et al.	
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	116	20040093096		2004-05-13	HUANG; Steve Lan-Ping. et al.	
	117	20040098754		2004-05-20	VELLA; Zane. et al.	
	118	20040111473		2004-06-10	LYSENKO; Anton. et al.	
	119	20040117462		2004-06-17	BODIN; William Kress. et al.	
	120	20040117491		2004-06-17	KARAOGUZ; Jeyhan. et al.	
	121	20040117840		2004-06-17	BOUDREAU; Paul A. et al.	
	122	20040117858		2004-06-17	BOUDREAU; Paul A. et al.	
	123	20040128701		2004-07-01	KANEKO; Toshimitsu. et al.	
	124	20040131192		2004-07-08	METCALF; Randall B.	
	125	20040133689		2004-07-08	VASISHT; Samrat.	
	126	20040143368		2004-07-22	MAY; Robert E. et al.	

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	128	20040148237		2004-07-29	BITTMANN; Ran. et al.	
	129	20040168081		2004-08-26	LADAS; Corey M. et al.	
	130	20040170383		2004-09-02	MAZUR; Leszek.	
	131	20040171346		2004-09-02	LIN; John.	
	132	20040177167		2004-09-09	IWAMURA; Ryuichi. et al.	
	133	20040179554		2004-09-16	TSAO; Hsi-Kang.	
	134	20040183827		2004-09-23	PUTTERMAN; Daniel. et al.	
	135	20040185773		2004-09-23	GERBER; Louis. et al.	
	136	20040203378		2004-10-14	POWERS; Simon.	
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	138	20040208158		2004-10-21	FELLMAN; Ronald D. et al.	
	139	20040213230		2004-10-28	DOUSKALIS; William. et al.	
	140	20040223622		2004-11-11	LINDEMANN; Eric Lee [Us] et al.	
	141	20040224638		2004-11-11	FADELL; Anthony M. et al.	
	142	20040228367		2004-11-18	MOSIG; Rudiger. et al.	
	143	20040248601		2004-12-09	CHANG; Chin-Chi.	
	144	20040249490		2004-12-09	SAKAI; Kenji.	
	145	20040249965		2004-12-09	HUGGINS; Guy Dwayne. et al.	
	146	20040249982		2004-12-09	ARNOLD; Johann. et al.	
	147	20040252400		2004-12-16	BLANK; William Thomas. et al.	
	148	20040253969		2004-12-16	NGUYEN; Vu X. et al.	

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	150	20050011388		2005-01-20	KOUZNETSOV; Alex A.	
	151	20050013394		2005-01-20	RAUSCH; Mathias. et al.	
	152	20050015551		2005-01-20	EAMES; Russell Mark. et al.	
	153	20050021590		2005-01-27	DEBIQUE; Kirt A. [Us] et al.	
	154	20050027821		2005-02-03	ALEXANDER; Justin. et al.	
	155	20050047605		2005-03-03	LEE; Noel. et al.	
	156	20050058149		2005-03-17	HOWE; Wayne Richard.	
	157	20050060435		2005-03-17	XUE; Xin. et al.	
	158	20050062637		2005-03-24	EL ZABADANI; Hicham Mahmoud. et al.	
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	161	20050114538		2005-05-26	ROSE; Steven W.	
	162	20050120128		2005-06-02	WILLES; W. P. et al.	
	163	20050125222		2005-06-09	BROWN; Michael Wayne. et al.	
	164	20050125357		2005-06-09	SAADAT; Abbas S. et al.	
	165	20050131558		2005-06-16	BRAITHWAITE; Michael. et al.	
	166	20050154766		2005-07-14	HUANG; Wei-Hung. et al.	
	167	20050159833		2005-07-21	GIAIMO; Edward C. et al.	
	168	20050160270		2005-07-21	GOLDBERG; David. et al.	
	169	20050166135		2005-07-28	BURKE; David G. et al.	
	170	20050168630		2005-08-04	YAMADA; Norihiko. et al.	

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	172	20050177643		2005-08-11	XU; Shugong.	
	173	20050181348		2005-08-18	CAREY; Tadhg M. et al.	
	174	20050195205		2005-09-08	ABRAMS; Thomas A.Jr.	
	175	20050195823		2005-09-08	CHEN; Jian-Rong. et al.	
	176	20050197725		2005-09-08	ALEXANDER; Jim. et al.	
	177	20050198221		2005-09-08	MANCHESTER; Scott. et al.	
	178	20050198574		2005-09-08	LAMKIN; Allan B. et al.	
	179	20050201549		2005-09-15	DEDIEU; Stephane. et al.	
	180	20050215265		2005-09-29	SHARMA; Sanjeev K.	
	181	20050216556		2005-09-29	MANION; Todd R. et al.	

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	182	20050239445		2005-10-27	KARAOGUZ; Jeyhan. et al.	
	183	20050246421		2005-11-03	MOORE; Kevin R. et al.	
	184	20050262217		2005-11-24	NONAKA; Masao. et al.	
	185	20050281255		2005-12-22	DAVIES; Trevor. et al.	
	186	20050283820		2005-12-22	RICHARDS; Martin J. et al.	
	187	20050288805		2005-12-29	MOORE; Jeffrey C. et al.	
	188	20050289224		2005-12-29	DESLIPPE; Mark H. et al.	
	189	20060041639		2006-02-23	LAMKIN; Allan B. [Us] et al.	
	190	20060072489		2006-04-06	TOYOSHIMA; Akihiko.	
	191	20060095516		2006-05-04	WIJERATNE; Viranga L.	
	192	20060098936		2006-05-11	IKEDA; Wataru. et al.	

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	194	20060142034		2006-06-29	WENTINK; Menzo. et al.	
	195	20060143236		2006-06-29	WU; Michael.	
	196	20060155721		2006-07-13	GRUNWALD; David. et al.	
	197	20060161635		2006-07-20	LAMKIN; Allan B. et al.	
	198	20060161742		2006-07-20	SUGIMOTO; Kayo. et al.	
	199	20060173844		2006-08-03	ZHANG; Junbiao. et al.	
	200	20060173976		2006-08-03	VINCENT; Jonathan M. et al.	
	201	20060193454		2006-08-31	ABOU-CHAKRA; Rabih. et al.	
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	205	20060270395		2006-11-30	DHAWAN; Anil K. [Us] et al.	
	206	20070003067		2007-01-04	GIERL; Stefan. et al.	
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	208	20070022207		2007-01-25	MILLINGTON; Nicholas A. et al.	
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	210	20070043847		2007-02-22	CARTER; Harry N. et al.	
	211	20070047712		2007-03-01	GROSS; Kevin P. et al.	
	212	20070048713		2007-03-01	PLASTINA; Daniel. et al.	
	213	20070054680		2007-03-08	MO; Shaomin S. et al.	
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	216	20070142944		2007-06-21	GOLDBERG; David. et al.	
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	222	20070249295		2007-10-25	UKITA; Yoshitaka. et al.	
	223	20070265031		2007-11-15	KOIZUMI; Michiaki. et al.	
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	227	20080007649		2008-01-10	BENNETT; James D.	
	228	20080007650		2008-01-10	BENNETT; James D.	
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	230	20080018785		2008-01-24	BENNETT; James D.	
	231	20080022320		2008-01-24	VER STEEG; William C.	
	232	20080025535		2008-01-31	RAJAPAKSE; Ravi.	
	233	20080072816		2008-03-27	RIESS; Walter H. et al.	
	234	20080075295		2008-03-27	MAYMAN; Avrum G. et al.	
	235	20080077619		2008-03-27	GILLEY; Glenn Gregory. et al.	
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	238	20080091771		2008-04-17	ALLEN; Jeffrey L. et al.	
	239	20080109852		2008-05-08	KRETZ; Martin H. et al.	
	240	20080120429		2008-05-22	MILLINGTON; Nicholas A.J. et al.	
	241	20080126943		2008-05-29	PARASNIS; Shashank Mohan. et al.	
	242	20080144861		2008-06-19	MELANSON; John L. et al.	
	243	20080144864		2008-06-19	HUON; Graeme John [Au] et al.	
	244	20080146289		2008-06-19	KORNELUK; Jose E. et al.	
	245	20080189272		2008-08-07	POWERS; Michael. et al.	
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	46	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.	
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	48	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.	
	49	Non-Final Office Action mailed on 01 December 2014, issued in connection with U.S. Patent Application No. 14/516867, filed on 17 October 2014, 11 pages.	
	50	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.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2414
	Examiner Name	TBD
	Attorney Docket Number	05-0601-CON0120

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)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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

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	Application Number	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2414
	Examiner Name	TBD
	Attorney Docket Number	05-0601-CON0120

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	1	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.	
	2	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.	
	3	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.	
	4	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.	
	5	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.	
	6	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.	
	7	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.	
	8	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.	
	9	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.	
	10	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.	
	11	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.	

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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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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-02-21
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Attorney Docket Number	05-0601-CON0120

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	1	Non-Final Office Action mailed on 23 October 2014, issued in connection with U.S. Patent Application No. 13/864251, filed on 17 April 2013, 11 pages.	
	2	Non-Final Office Action mailed on 23 October 2014, issued in connection with U.S. Patent Application No. 13/888203, filed on 06 May 2013, 9 pages.	
	3	Non-Final Office Action mailed on 23 October 2014, issued in connection with U.S. Patent Application No. 13/932864, filed on 01 July 2013, 20 pages.	
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	5	Non-Final Office Action mailed on 26 February 2015, issued in connection with U.S. Patent Application No. 14/186850, filed on 21 February 2014, 25 pages.	
	6	Non-Final Office Action mailed on 26 July 2017, issued in connection with U.S. Patent Application No. 13/705176, filed on 05 December 2012, 14 pages.	
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	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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	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2414
	Examiner Name	TBD
	Attorney Docket Number	05-0601-CON0120

	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 May 2019, issued in connection with U.S. Patent Application No. 16/298515, filed on 11 March 2019, 22 pages.	
	16	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.	
	17	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.	
	18	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.	
	19	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.	
	20	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.	
	21	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.	
	22	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.	

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	24	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.	
	25	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/088678, filed on 01 April 2016, 9 pages.	
	26	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/089758, filed on 04 April 2016, 9 pages.	
	27	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/155149, filed on 16 May 2016, 9 pages.	
	28	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.	
	29	Notice of Allowance mailed on 02 July 2015, issued in connection with U.S. Patent Application No. 13/888203, filed on 06 May 2013, 19 pages.	
	30	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.	
	31	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.	
	32	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.	
	33	Notice of Allowance mailed on 03 September 2015, issued in connection with U.S. Patent Application No. 13/705174, filed on 05 December 2012, 4 pages.	

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	34	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.	
	35	Notice of Allowance mailed on 04 October 2017, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 8 pages.	
	36	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.	
	37	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.	
	38	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.	
	39	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.	
	40	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.	
	41	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.	
	42	Notice of Allowance mailed on 07 October 2015, issued in connection with U.S. Patent Application No. 14/184526, filed on 19 February 2014, 7 pages.	
	43	Notice of Allowance mailed on 09 March 2017, issued in connection with U.S. Patent Application No. 15/080591, filed on 25 March 2016, 7 pages.	
	44	Notice of Allowance mailed on 09 October 2015, issued in connection with U.S. Patent Application No. 13/435739, filed on 30 March 2012, 4 pages.	

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	45	Notice of Allowance mailed on 10 August 2015, issued in connection with U.S. Patent Application No. 13/848904, filed on 22 March 2013, 9 pages.	
	46	Notice of Allowance mailed on 10 February 2017, issued in connection with U.S. Application No. 14/290493, filed on 29 May 2014, 13 pages.	
	47	Notice of Allowance mailed on 10 November 2011, issued in connection with U.S. Patent Application No. 11/906702, filed on 02 October 2007, 17 pages.	
	48	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.	
	49	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.	
	50	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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CERTIFICATION STATEMENT

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

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

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See attached certification statement.

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

☒ A certification statement is not submitted herewith.

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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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	6	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.	
	7	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.	
	8	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.	
	9	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.	
	10	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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	13	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.	
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	21	Notice of Allowance mailed on 22 September 2015, issued in connection with U.S. Patent Application No. 13/888203, filed on 06 May 2013, 7 pages.	
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	34	Notice of Allowance mailed on 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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	38	Notice of Allowance mailed on 29 July 2015, issued in connection with U.S. Patent Application No. 13/359976, filed on 27 January 2012, 28 pages.	
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	47	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.	
	48	Notice of Incomplete Re-Exam Request mailed on 25 May 2017, issued in connection with U.S. Patent Application No. 90/013959 , filed on 01 April 2016, 10 pages.	
	49	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.	
	50	NUTZEL et al., "Sharing Systems for Future HiFi Systems," IEEE, 2004, 9 pages.	

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See attached certification statement.

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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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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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	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2414
	Examiner Name	TBD
	Attorney Docket Number	05-0601-CON0120

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	1	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.	
	2	"Sonos Multi-Room Music System User Guide," Version 090401, Sonos, Inc. 1 April 2009, 256 pages.	
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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A 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)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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	1	Simple Service Discovery Protocol/1.0 Operating without an Arbiter (Oct. 28, 1999) (24 pages).	
	2	Sonos, Inc. v D&M Holdings, D&M Supp Opposition Brief including Exhibits, 17 March 2017, 23 pages.	
	3	Sonos, Inc. v. D&M Holdings, Expert Report of Jay P. Kesan including Appendices A-P, Feb. 20, 2017, 776 pages.	
	4	Sonos, Inc. v. D&M Holdings Inc. et al., Complaint for Patent Infringement, filed October 21, 2014, 20 pages.	
	5	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions, filed September 14, 2016, 100 pages.	
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	10	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Answer to Plaintiff's Second Amended Complaint, filed April 30, 2015, 19 pages.	
	11	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' First Amended Answer to Plaintiffs' Third Amended Complaint, filed September 7, 2016, 23 pages.	

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	12	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.	
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	17	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.	
	18	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.	
	19	Sonos, Inc. v. D&M Holdings Inc. et al., Plaintiff Sonos, Inc.'s Opening Claim Construction Brief, filed September 9, 2016, 26 pages.	
	20	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.	
	21	Sonos, Inc. v. D&M Holdings Inc. et al., Reply Brief in Support of Defendants' Motion for Leave to Amend their Answer to Add the Defense of Inequitable Conduct, provided November 10, 2016, 16 pages.	
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	23	Sonos, Inc. v. D&M Holdings Inc. et al., Second Amended Complaint for Patent Infringement, filed February 27, 2015, 49 pages.	
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	27	Sonos, Inc. v. D&M Holdings, Inc. (No. 14-1330-RGA), Defendants' Final Invalidity Contentions (Jan. 18, 2017) (106 pages).	
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	30	Sonos, Inc. v D&M Holdings, Sonos Supp Opening Markman Brief including Exhibits, 3 March 2017, 17 pages.	
	31	Sonos, Inc. v. D&M Holdings, Sonos Supp Reply Markman Brief including Exhibits, 29 March 2017, 36 pages.	
	32	Sonos, Inc. v. D&M Holdings Inc. et al., Declaration of Steven C. Visser, executed September 9, 2016, 40 pages.	
	33	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 1: Defendants' Invalidity Contentions for U.S. Patent No. 7,571,014 filed September 16, 2016, 270 pages.	

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	34	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.	
	35	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.	
	36	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.	
	37	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.	
	38	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.	
	39	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.	
	40	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.	
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	42	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.	
	43	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.	
	44	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Initial Invalidity Contentions Exhibit 1: Defendants' Invalidity Contentions for U.S. Patent No. 7,571,014 filed April 15, 2016, 161 pages.	

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	Art Unit	2414
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	Attorney Docket Number	05-0601-CON0120

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	47	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.	
	48	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.	
	49	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.	
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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	Glenford J. Madamba
Attorney Docket Number	05-0601-CON0120

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	2	6085236		2000-07-04	LEA; Rodger J.	
	3	6741708		2004-05-25	NAKATSUGAWA; Yoshinori.	
	4	7215649		2007-05-08	YU; Robert. et al.	
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	6	7690017		2010-03-30	STECYK; Polly. et al.	
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	2	20020083342		2002-06-27	WEBB; Brian T. et al.	
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Signature	/Zuha S. Irfan/	Date (YYYY-MM-DD)	2020-05-22
Name/Print	Zuha S. Irfan	Registration Number	72387

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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.

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

Application Number	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	Glenford J. Madamba
Attorney Docket Number	05-0601-CON0120

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	Attorney Docket Number	05-0601-CON0120

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	/Zuha S. Irfan/	Date (YYYY-MM-DD)	2020-05-22
Name/Print	Zuha S. Irfan	Registration Number	72387

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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Art Unit	2451
Examiner Name	MADAMBA, GLENFORD J
Attorney Docket Number	05-0601-CON0120

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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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Name/Print	Brandon J. Kennedy	Registration Number	67894

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

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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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

CERTIFICATION STATEMENT

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

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See attached certification statement.

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

☒ A certification statement is not submitted herewith.

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)	2020-07-23
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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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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	8	Zeroconf Working Group, Dynamic Configuration of IPv4 Link-Local Addresses, Internet-Draft, 1 July 2004, 60 pages.	
	9	Zeroconf Working Group, Dynamic Configuration of IPv4 Link-Local Addresses, Internet-Draft, 7 June 2004, 62 pages.	
	10	Zeroconf Working Group, Dynamic Configuration of Link-Local IPv4 Addresses, Internet-Draft, 16 February 2004, 60 pages.	
	11	Zeroconf Working Group, Dynamic Configuration of Link-Local IPv4 Addresses, Internet-Draft, 31 March 2004, 60 pages.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

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	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

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)	2020-07-23
Name/Print	Brandon J. Kennedy	Registration Number	67894

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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

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

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, GLENFORD J
Attorney Docket Number	05-0601-CON0120

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	7076204		2006-07-11	RICHENSTEIN; Lawrence. et al.	
	2	7716375		2010-05-11	BLUM; Philipp. 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	20060287746		2006-12-21	BRAITHWAITE; Michael. et al.	

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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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	Application Number	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
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	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

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	None	

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-07-29
Name/Print	Brandon J. Kennedy	Registration Number	67,894

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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 09/30/2020

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: 09/30/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/746,294	01/17/2020	Nicholas A.J. Millington	05-0601-CON0120	1099

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	12/30/2020

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 09/30/2020

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.
16/746,294	01/17/2020	Nicholas A.J. Millington	05-0601-CON0120	1099

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	12/30/2020

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
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/746,294	01/17/2020	Nicholas A.J. Millington	05-0601-CON0120	1099

135176 7590 09/30/2020

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Chicago, IL 60661

EXAMINER	
MADAMBA, GLENFORD J	
ART UNIT	**PAPER NUMBER**
2451	

DATE MAILED: 09/30/2020

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.

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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 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. 16/746,294	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 31 July 2020.
   ☐ 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 See Continuation Sheet . 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

Continuation of 3. The allowed claim(s) is/are: 1-5,10-11,13-17 and 19-31

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Allowable Subject Matter

1. The numbering of original claims 1-20 is renumbered. Claims 6-9, 12, 18 have been canceled, and NEW claim(s) 21-31 have been added.

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

The Office has deemed Applicant's latest claim amendments and corresponding remarks (dated 7/31/2020) *persuasive* to overcome the current rejection of the claims over the applied prior art references and/or any other reasonable rejection of the claims over additional candidate prior art and/or prior art combination, and the claims are thus considered in condition for patentability **(MPEP § 1302.14).**

In particular, the Office notes that Applicant's latest claim amendments and supporting remarks asserting that none of the currently applied prior art reference(s) (*Ladas* et al), nor any other candidate prior art reference, expressly and sufficiently discloses a combination of features recited by independent claims 1, 14 and 20 *as a whole*, and in particular the recited or amended feature{s} of the method further comprising "establishing an initial communication path with a computing device that is installed with software for controlling the playback device, wherein the

computing device is connected to a secure wireless network for exchanging digital data packets that is defined by one or more network devices, and wherein the initial communication path with the computing device does not traverse any of the one or more network devices . . . [and] connect to the secure wireless network.." in combination with the other elements of amended claims 1, 14 and 20…' (Remarks: paragraph 3, pg. 14 – paragraph 1, pg. 16) – is considered to be persuasive, and the independent claims are thus considered allowable over prior art.

The Office also notes that the instant application claims are also considered allowable over prior art for generally the same rationale given to related / parent application 16/298,515 (currently Patent 10/541,883), filed March 11, 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 9:00AM- 5:00PM, 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

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/746,294	Millington et al.
	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

CPC - Searched*		
Symbol	Date	Examiner
H04L41/22; H04W12/003; G06F3/0481; G06F3/0482; G06F3/04842; G06F3/04847; H04L12/28; H04L12/2803; H04L12/2807; H04L12/2809; H04L41/0803; H04L41/0809; H04L63/10; H04L63/20; H04L65/60; H04L67/02; H04L67/10; H04L67/141; H04W12/04; H04W12/08	02/14/2020	GJM

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
709	222	02/14/2020	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	02/14/2020	GJM
Inventor search in EAST	02/14/2020	GJM
Claim amendments / remarks received in response to initial non-final action issued, and the amended independent claims appear to be in condition for allowance. Updated search in EAST conducted, and no additional / pertinent candidate prior art found to fully and/or reasonably disclose the amended independent claims. Case is allowed.	09/22/2020	GJM

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/746,294	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	09/22/2020	GJM

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/746,294	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)	25	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	23 September 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	3b

U.S. Patent and Trademark Office — Part of Paper No.: 20200923

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/746,294	Millington et al.
	Examiner	Art Unit
	GLENFORD J MADAMBA	2451

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04L	/	12	/	24

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
709	222

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	25	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	23 September 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	3b

U.S. Patent and Trademark Office — Part of Paper No.: 20200923

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/746,294	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	6	10	24	19	16	28								
2	2	7	11	25	20	17	29								
3	3	-	12	9	21	18	30								
4	4	8	13	10	22	19	31								
5	5	20	14	11	23										
-	6	21	15	12	24										
-	7	22	16	13	25										
-	8	23	17	14	26										
-	9	-	18	15	27										

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	25	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	23 September 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	3b

U.S. Patent and Trademark Office — Part of Paper No.: 20200923

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	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, GLENFORD J
Attorney Docket Number	05-0601-CON0120

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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 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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	Attorney Docket Number	05-0601-CON0120

	1	c200 Wireless Network MP3 Player, 4 June 2003, 1 page.	
	2	Carnoy, David. Parrot DS1120 Wireless Hi-Fi Speaker System Review, 15 July 2008, 4 pages.	
	3	Case et al. RFC 1157 - A Simple Network Management Protocol, May 1990, 36 pages.	
	4	cd30. Audio Control Document V4.2 Released! 18 September 2003, 7 pages.	
	5	cd30 Audio Control Protocol. Version 4.2. 18 September 2003, 24 pages.	
	6	cd30. Audio Stream Protocol Released. 9 March 2004, 2 pages.	
	7	Cd30. Audio Stream Protocol: Version 18. 9 March 2004, 13 pages.	
	8	cd30 Backgrounder, 1 page [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	
	9	cd30. c100 Network MP3 Player. Quick Product Summary .1 page [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	
	10	cd30. c200 Wireless Network MP3 Player. Quick Product Summary. 1 page [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	
	11	cd30. c300 Extended-Range Wireless Network MP3 Player. Quick Product Summary, 1 page [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	

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

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	Attorney Docket Number	05-0601-CON0120

	12	cd30 C300 Reviews. Digital Audio Receivers (DARs) Reviews by CNET, 30 March 2003, 3 pages.	
	13	cd30. Careers, 21 November 2003, 1 page.	
	14	cd30. Contact, 12 December 2003, 1 page.	
	15	cd30. Corporate Fact Sheet, 1 page [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	
	16	cd30 FAQs. What problem or need does cd30 address with their products? 2 pages [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	
	17	cd30 Frequently-Asked Questions About cd30 Network MP3 Players, 12 December 2003, 6 pages.	
	18	cd30 Introduces Family of MP3 Players at this year's Consumer Electronics Show. 9-12 January, 2003 Las Vegas Convention Center, 12 February 2004, 2 pages.	
	19	cd30 Introduces Family of MP3 Players at this year's Consumer Electronics Show. 9-12 January, 2003 Las Vegas Convention Center, 2 pages.	
	20	cd30 Introduces Family of Wireless Network MP3 Players. 9-12 January 2003 Las Vegas Convention Center, 2 pages.	
	21	cd30. Logo page, 1 page [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	
	22	cd30 Management, 12 December 2003, 1 page.	

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	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

	23	cd30. Management Team, 1 page [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	
	24	cd30. Multi-Player Synchronization. 15 January 2004, 4 pages.	
	25	cd30 Network MP3 Player Models, 01 February 2004, 1 page.	
	26	Cd30, Network MP3 Player, Product Manual. Copyright 2003, 65 pages.	
	27	cd30 Network MP3 Player. Product Manual for c100, c200, and c300, 2003, 65 pages.	
	28	cd30. Network MP3 Player. Quick Installation Guide, 1 page [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	
	29	cd30. Network MP3 Player Quick Installation Guide, 1 page [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	
	30	cd30 Network MP3 Player Reviews. 1 February 2004, 2 pages.	
	31	cd30 Network MP3 Player Specifications. 2 February 2004, 2 pages.	
	32	cd30 Network MP3 Players, 18 November 2003, 1 page.	
	33	cd30 Network MP3 Players c100, c200, and c300, 1 page [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	

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	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

	34	cd30 Network MP3 Players: Stream music from your PC to your stereo, 18 November 2003, 1 page.	
	35	cd30 Network MP3 Players: Stream your MP3s to your stereo! 24 May 2003, 1 page.	
	36	cd30. News, Reviews 21 November 21 2003, 2 pages.	
	37	cd30. Product Support. 10 May 2006, 17 pages.	
	38	cd30 Product Support Forums. Forum Index, 15 April 2003, 1 page.	
	39	cd30 Product Support Forums. Forum Index, 18 June 2003, 1 page.	
	40	cd30 Product Support Forums. Forum Index, 2 February 2004, 1 page.	
	41	cd30. Product Support Forums. Multiple stereos -- multiple cd30s -- same music? 3 November 2003, 2 pages.	
	42	Cd3o. Network MP3 Player, Product Manual, 2003, 65 pages.	
	43	cd3o Product Support Center, 19 November 2003, 1 page.	
	44	CES: MP3-Player mit Pfiff, 13 January 2003, 4 pages [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	

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

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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

	45	Cheshire et al. RFC 3927 - Dynamic Configuration of IPv4 Link-Local Addresses, 2005, 34 pages.	
	46	Cheshire et al. Zero Configuration Networking: The Definitive Guide. December 2005, 288 pages.	
	47	Clipsal. Multi Room Audio Amplifier, User's Guide, V1.0, December 2005, 28 pages.	
	48	Clipsal. Multi Room Audio Matrix Switcher, User's Guide, 560884, V1.0, December 2005, 20 pages.	
	49	C-Media. CM102-A/102S USB 2CH Audio Controller, Data Sheet. Version 1.4. 21 May 2003, 20 pages.	
	50	CNET. Wireless gizmo for PC music hits home, 30 September 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	/GLENFORD J MADAMBA/	Date Considered	09/23/2020

*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)		
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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

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)	2020-07-23
Name/Print	Brandon J. Kennedy	Registration Number	67894

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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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(Not for submission under 37 CFR 1.99)

Application Number	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, GLENFORD J
Attorney Docket Number	05-0601-CON0120

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

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Name/Print	Brandon J. Kennedy	Registration Number	67894

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CERTIFICATION STATEMENT

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

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

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See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2414
	Examiner Name	TBD
	Attorney Docket Number	05-0601-CON0120

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	1	Fries et al. "The MP3 and Internet Audio Handbook: Your Guide to the Digital Music Revolution." 2000, 320 pages.	
	2	FULTON et al., "The Network Audio System: Make Your Application Sing (As Well As Dance)!" The X Resource, 1994, 14 pages.	
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	5	HANS et al., "Interacting with Audio Streams for Entertainment and Communication," Proceedings of the Eleventh ACM International Conference on Multimedia, ACM, 2003, 7 pages.	

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	10	HUANG C.M., et al., "A Synchronization Infrastructure for Multicast Multimedia at the Presentation Layer," IEEE Transactions on Consumer Electronics, 1997, pp. 370-380, Vol. 43, No. 3.	
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	21	INTERNATIONAL BUREAU, International Preliminary Report on Patentability, mailed on 08 January 2015, issued in connection with International Application No. PCT/US2013/046386, filed on 18 June 2013, 8 pages.	
	22	INTERNATIONAL BUREAU, International Preliminary Report on Patentability mailed on 30 January 2014, issued in connection with International Application No. PCT/US2012/045894, filed on 09 July 2012, 6 pages.	
	23	INTERNATIONAL SEARCHING AUTHORITY, International Search Report mailed on 01 August 2008, in connection with International Application No. PCT/US2004/023102, 5 pages.	
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	25	INTERNATIONAL SEARCHING AUTHORITY, International Search Report mailed on 26 December 2012, issued in connection with International Application No. PCT/US2012/045894, filed on 09 July 2012, 3 pages.	
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	35	JAPANESE PATENT OFFICE, Final Office Action mailed on 08 November 2016, issued in connection with Japanese Patent Application No. 2015-520286, 5 pages.	
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Name/Print	Brandon J. Kennedy	Registration Number	67894

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	11	WaveLan High-Speed Multimode Chip Set, AVAGO0003, Agere Systems, February 2003, 4 pages.	

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	24	Yamaha DME 64 Owner's Manual; copyright 2004, 80 pages.	
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	27	Yamaha DME Designer software manual: Copyright 2004, 482 pages.	
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	29	"Systemline Modular Installation Guide, Multiroom System," Systemline, 2003, pp. 1-22.	
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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.

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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	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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

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

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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.

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

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

Application Number	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, GLENFORD J
Attorney Docket Number	05-0601-CON0120

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	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

	1	Yahoo Finance. BridgeCo Successfully Commercializes its BeBoB Application for the Music Industry: Four Manufacturers Demonstrate BeBoB-enabled Products at NAMM 2004. 16 January 2004, 3 pages.	
	2	Yamaha. Digital Audio Server, MCX-1000, Owner's Manual, 1996-2002, 148 pages.	
	3	Yamaha MusicCAST Digital Audio Server MCX-1000 Owner's Manual, Copyright 1996-2002, 148 pages.	
	4	Yamaha, MusicCAST: Digital Audio Terminal MCX-A10, Owner's Manual. 4 June 2003, 76 pages.	
	5	Yamaha Personal Receiver RP-U200 Operation Manual ("Operation Manual"), Copyright 1992-1997, 57 pages.	
	6	Zero Configuration networking with Bonjour -YouTube available via https://www.youtube.com/watch?v=ZhtZJ6EsCXo 3 pages [produced by Google in Inv. No. 337-TA-1191 on May 6, 2020].	
	7	Zeroconf Working Group, Dynamic Configuration of IPv4 Link-Local Addresses, Internet-Draft, 8 July 2004, 62 pages.	
	8	Zeroconf Working Group, Dynamic Configuration of IPv4 Link-Local Addresses, Internet-Draft, 1 July 2004, 60 pages.	
	9	Zeroconf Working Group, Dynamic Configuration of IPv4 Link-Local Addresses, Internet-Draft, 7 June 2004, 62 pages.	
	10	Zeroconf Working Group, Dynamic Configuration of Link-Local IPv4 Addresses, Internet-Draft, 16 February 2004, 60 pages.	
	11	Zeroconf Working Group, Dynamic Configuration of Link-Local IPv4 Addresses, Internet-Draft, 31 March 2004, 60 pages.	

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Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	09/23/2020

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	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

CERTIFICATION STATEMENT

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

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

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See attached certification statement.

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

☒ A certification statement is not submitted herewith.

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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-07-23
Name/Print	Brandon J. Kennedy	Registration Number	67894

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Doc code: IDS
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2414
Examiner Name	TBD
Attorney Docket Number	05-0601-CON0120

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2414
	Examiner Name	TBD
	Attorney Docket Number	05-0601-CON0120

	1	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.	
	2	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.	
	3	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.	
	4	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.	
	5	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.	
	6	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.	
	7	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.	
	8	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.	
	9	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.	
	10	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.	
	11	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.	

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	Art Unit	2414
	Examiner Name	TBD
	Attorney Docket Number	05-0601-CON0120

	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.	
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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.	
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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.	
	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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	Attorney Docket Number	05-0601-CON0120

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)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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

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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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	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2414
	Examiner Name	TBD
	Attorney Docket Number	05-0601-CON0120

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	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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	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 May 2019, issued in connection with U.S. Patent Application No. 16/298515, filed on 11 March 2019, 22 pages.	
	16	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.	
	17	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.	
	18	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.	
	19	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.	
	20	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.	
	21	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.	
	22	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.	

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	23	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.	
	24	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.	
	25	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/088678, filed on 01 April 2016, 9 pages.	
	26	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/089758, filed on 04 April 2016, 9 pages.	
	27	Notice of Allowance mailed on 02 December 2016, issued in connection with U.S. Patent Application No. 15/155149, filed on 16 May 2016, 9 pages.	
	28	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.	
	29	Notice of Allowance mailed on 02 July 2015, issued in connection with U.S. Patent Application No. 13/888203, filed on 06 May 2013, 19 pages.	
	30	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.	
	31	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.	
	32	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.	
	33	Notice of Allowance mailed on 03 September 2015, issued in connection with U.S. Patent Application No. 13/705174, filed on 05 December 2012, 4 pages.	

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	34	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.	
	35	Notice of Allowance mailed on 04 October 2017, issued in connection with U.S. Patent Application No. 14/486667, filed on 15 September 2014, 8 pages.	
	36	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.	
	37	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.	
	38	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.	
	39	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.	
	40	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.	
	41	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.	
	42	Notice of Allowance mailed on 07 October 2015, issued in connection with U.S. Patent Application No. 14/184526, filed on 19 February 2014, 7 pages.	
	43	Notice of Allowance mailed on 09 March 2017, issued in connection with U.S. Patent Application No. 15/080591, filed on 25 March 2016, 7 pages.	
	44	Notice of Allowance mailed on 09 October 2015, issued in connection with U.S. Patent Application No. 13/435739, filed on 30 March 2012, 4 pages.	

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	45	Notice of Allowance mailed on 10 August 2015, issued in connection with U.S. Patent Application No. 13/848904, filed on 22 March 2013, 9 pages.	
	46	Notice of Allowance mailed on 10 February 2017, issued in connection with U.S. Application No. 14/290493, filed on 29 May 2014, 13 pages.	
	47	Notice of Allowance mailed on 10 November 2011, issued in connection with U.S. Patent Application No. 11/906702, filed on 02 October 2007, 17 pages.	
	48	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.	
	49	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.	
	50	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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	1	RE41608		2010-08-31	BLAIR; Christopher Douglas. et al.	
	2	D260764	S	1981-09-15	CASTAGNA; John F. et al.	
	3	D279779	S	1985-07-23	TAYLOR; Terrance N.	
	4	D293671	S	1988-01-12	BEAUMONT; Thomas G.	
	5	D301037	S	1989-05-09	MATSUDA; Hari.	
	6	D304443	S	1989-11-07	GRINYER; Clive A. et al.	
	7	D313023	S	1990-12-18	KOLENDA; David F. et al.	
	8	D313398	S	1991-01-01	GILCHRIST; Thomas L.	

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

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

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

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

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

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

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

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

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

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

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

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	130	5553147		1996-09-03	PINEAU; Joseph E. M.	
	131	5553222		1996-09-03	MILNE; Steve H. et al.	
	132	5553314		1996-09-03	GRUBE; Gary W. et al.	
	133	5596696		1997-01-21	TINDELL; James M. et al.	
	134	5602992		1997-02-11	DANNEELS; Gunner.	
	135	5623483		1997-04-22	AGRAWAL; Prathima. et al.	
	136	5625350		1997-04-29	FUKATSU; Hitoshi. et al.	
	137	5633871		1997-05-27	BLOKS; Rudolf H. J.	
	138	5636345		1997-06-03	VALDEVIT; Ezio.	
	139	5640388		1997-06-17	WOODHEAD; Douglas F. et al.	
	140	5642171		1997-06-24	BAUMGARTNER; Donn M. et al.	

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	141	5652749		1997-07-29	DAVENPORT; David William. et al.	
	142	5661665		1997-08-26	GLASS; Adam. et al.	
	143	5661728		1997-08-26	FINOTELLO; Andrea. et al.	
	144	5668884		1997-09-16	CLAIR Jr..; Roy Barry. et al.	
	145	5673323		1997-09-30	SCHOTZ; Larry. et al.	
	146	5696896		1997-12-09	BADOVINATZ; Peter Richard. et al.	
	147	5726989		1998-03-10	DOKIC; Miroslav V.	
	148	5732059		1998-03-24	KATSUYAMA; Akira. et al.	
	149	5740235		1998-04-14	LESTER; James William. et al.	
	150	5742623		1998-04-21	NUBER; Ray. et al.	
	151	5751819		1998-05-12	DORROUGH; Michael L.	

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	152	5761320		1998-06-02	FARINELLI; Robert. et al.	
	153	5774016		1998-06-30	KETTERER; Ernest R.	
	154	5787249		1998-07-28	BADOVINATZ; Peter Richard. et al.	
	155	5790543		1998-08-04	CLOUTIER; Leo.	
	156	5808662		1998-09-15	KINNEY; Daniel Reid. et al.	
	157	5812201		1998-09-22	YOO; Ki Ryung.	
	158	5815689		1998-09-29	SHAW; George H. J. et al.	
	159	5818948		1998-10-06	GULICK; Dale E.	
	160	5832024		1998-11-03	SCHOTZ; Larry. et al.	
	161	5838909		1998-11-17	ROY; H. Scott. et al.	
	162	5848152		1998-12-08	SLIPY; Michael J. et al.	

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	163	5852722		1998-12-22	HAMILTON; Graham.	
	164	5867691		1999-02-02	SHIRAISHI; Hajime.	
	165	5875233		1999-02-23	COX; Daniel R.	
	166	5875354		1999-02-23	CHARLTON; Paul. et al.	
	167	5887143		1999-03-23	SAITO; Masahiko. et al.	
	168	5905768		1999-05-18	MATURI; Greg. et al.	
	169	5917830		1999-06-29	CHEN; David. et al.	
	170	5923869		1999-07-13	KASHIWAGI; Yoshiichiro. et al.	
	171	5923902		1999-07-13	INAGAKI; Yoshihiro.	
	172	5946343		1999-08-31	SCHOTZ; Larry. et al.	
	173	5956025		1999-09-21	GOULDEN; Lorna. et al.	

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	174	5956088		1999-09-21	SHEN; Paul. et al.	
	175	5960006		1999-09-28	MATURI; Greg. et al.	
	176	5984512		1999-11-16	JONES; Anthony Mark. et al.	
	177	5987525		1999-11-16	ROBERTS; Dale Tyson. et al.	
	178	5987611		1999-11-16	FREUND; Gregor.	
	179	5990884		1999-11-23	DOUMA; Peter. et al.	
	180	5991307		1999-11-23	KOMURO; Teruyoshi. et al.	
	181	5999906		1999-12-07	MERCS; Laura. et al.	
	182	6006275		1999-12-21	PICAZO et al.	
	183	6009457		1999-12-28	MOLLER; Matthew Donaldson.	
	184	6018376		2000-01-25	NAKATANI; Shintarou.	

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	185	6026150		2000-02-15	FRANK; Edward H. et al.	
	186	6029196		2000-02-22	LENZ; Michael A.	
	187	6031818		2000-02-29	LO; W. Steven. et al.	
	188	6032202		2000-02-29	LEA; Rodger J. et al.	
	189	6038614		2000-03-14	CHAN; Rix S. et al.	
	190	6046550		2000-04-04	FERENCE; Jonathan H. et al.	
	191	6061457		2000-05-09	STOCKHAMER; Lee.	
	192	6078725		2000-06-20	TANAKA; Mitsumasa.	
	193	6081266		2000-06-27	SCIAMMARELLA; Eduardo.	
	194	6088063		2000-07-11	SHIBA; Kosuke.	
	195	6101195		2000-08-08	LYONS; Paul Wallace. et al.	

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	196	6108485		2000-08-22	KIM; Jeong-Kyu.	
	197	6108686		2000-08-22	WILLIAMS; Jr., Henry R.	
	198	6119239		2000-09-12	FUJII; Kazuo.	
	199	6122668		2000-09-19	TENG; Peter Y. et al.	
	200	6122749		2000-09-19	GULICK; Dale A.	
	201	6127941		2000-10-03	VAN RYZIN; John M.	
	202	6128318		2000-10-03	SATO; Takashi.	
	203	6148205		2000-11-14	COTTON; Timothy R.	
	204	6154772		2000-11-28	DUNN; Bryan W. et al.	
	205	6157957		2000-12-05	BERTHAUD; Jean-Marc.	
	206	6163647		2000-12-19	TERASHIMA; Masaru. et al.	

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	207	6169725		2001-01-02	GIBBS; Simon J. et al.	
	208	6175872		2001-01-16	NEUMANN; Eric K. et al.	
	209	6181383		2001-01-30	FOX; Edward C. et al.	
	210	6185737		2001-02-06	NORTHCUTT; J. Duane. et al.	
	211	6195435		2001-02-27	KITAMURA; John S.	
	212	6195436		2001-02-27	SCIBORA; Marco. et al.	
	213	6199169		2001-03-06	VOTH; Duane J.	
	214	6212282		2001-04-03	MERSHON; Stuart.	
	215	6246701		2001-06-12	SLATTERY; William.	
	216	6253293		2001-06-26	RAO; Raghunath. et al.	
	217	6255961		2001-07-03	VAN; Ryzin John M. [Us] et al.	

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	219	6269406		2001-07-31	DUTCHER; David Paul. et al.	
	220	6301012		2001-10-09	WHITE; Craig R. et al.	
	221	6308207		2001-10-23	TSENG; Weinan William. et al.	
	222	6310652		2001-10-30	LI; Stephen. et al.	
	223	6313879		2001-11-06	KUBO; Hiroaki. et al.	
	224	6321252		2001-11-20	BHOLA; Sumeer. et al.	
	225	6324586		2001-11-27	JOHNSON; Aric R.	
	226	6332147		2001-12-18	MORAN; Thomas P. et al.	
	227	6343028		2002-01-29	KUWAOKA; Toshiharu.	
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	230	6349352		2002-02-19	LEA; Rodger J.	
	231	6351821		2002-02-26	VOTH; Duane J.	
	232	6353172		2002-03-05	FAY; Todor C. et al.	
	233	6356871		2002-03-12	HEMKUMAR; Nariankadu Datatreya. et al.	
	234	6404811		2002-06-11	CVETKO; John F. et al.	
	235	6418150		2002-07-09	STAATS; Erik P.	
	236	6430353		2002-08-06	HONDA; Susumu. et al.	
	237	6442443		2002-08-27	FUJII; Kazuo. et al.	
	238	6446080		2002-09-03	VAN; Ryzin John M. et al.	
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	240	6449653		2002-09-10	KLEMETS; Anders Edgar. et al.	
	241	6456783		2002-09-24	ANDO; Hideo. et al.	
	242	6463474		2002-10-08	FUH; Tzong-Fen. et al.	
	243	6466832		2002-10-15	ZUQERT; Benjamin. et al.	
	244	6469633		2002-10-22	WACHTER; Martin Richard [Us] et al.	
	245	6487296		2002-11-26	ALLEN; Steven W. et al.	
	246	6493832		2002-12-10	ITAKURA; Eisaburo. et al.	
	247	6522886		2003-02-18	YOUNGS; Edward A. et al.	
	248	6526325		2003-02-25	SUSSMAN; Robert. et al.	
	249	6526411		2003-02-25	WARD; Sean.	
	250	6535121		2003-03-18	MATHNEY; Richard K. et al.	

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

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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	545,472	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	2020/09/23 02:08
L2	645	L1 and ssid and wep near2 (key, password)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/09/23 02:08
L3	215	L2 and wlan	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/09/23 02:08
L4	48	L3 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/09/23 02:08
L5	48	L4 and access near2 point	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/09/23 02:08
L6	12	L5 and travers$4 with (access adj point, router)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	2020/09/23 02:09

			JPO; DERWENT; IBM_TDB			
L7	0	L6 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/09/23 02:09
L8	144	L2 and secure near2 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/09/23 02:10
L9	8	L8 and travers$4 with (access adj point, router)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/09/23 02:10
L10	0	L9 and (@ad<"20040604" or @rlad<"20040604")	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/09/23 02:10
L16	318	L1 and ssid and (playback adj device, zone adj player)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/09/23 02:15
L17	7	L16 and setup near2 mode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/09/23 02:15
L18	1	L17 and travers$4 with (access adj point, router)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/09/23 02:15
L19	273	((("MILLINGTON") near3 ("Nicholas")) OR (("HAINSWORTH") near3 ("Paul"))).INV.	US-PGPUB; USPAT; USOCR; EPO;	OR	OFF	2020/09/23 02:29

			JPO; DERWENT			
L20	3	L19 and ssid and wep and (join$3, access$3) near3 secure near network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/09/23 02:29
L21	77	(US-20060142034-$ 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	2020/09/23 02:30
L22	7	L21 and wlan with secure	US-PGPUB; USPAT; DERWENT	OR	OFF	2020/09/23 02:30
S1	1,985	709/220.ccls.	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:13
S2	2,193	ad$1hoc adj network$1	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:13
S3	438,682	(wired, wireless)	USPAT; USOCR; EPO;	OR	ON	2009/01/09 12:14

			JPO; DERWENT			
S4	1,521	S2 and S3	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/09 12:14
S5	1,082	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	4,904	ad$1hoc adj network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:18
S11	728,858	(wired, wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:19
S12	4,102	S10 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/09 12:19

S13	2,968	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	4,909	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;	OR	ON	2009/01/13 13:27

			FPRS; EPO; JPO; DERWENT; 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;	OR	ON	2009/01/13 17:10

			JPO; DERWENT; IBM_TDB			
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	2,308	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;	OR	ON	2009/01/13 17:16

			DERWENT; IBM_TDB			
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	1,909	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	5,809	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	1,404	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;	OR	ON	2009/11/06 15:47

			JPO; DERWENT; IBM_TDB			
S52	2,085	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	1,707	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-7434166-$ or US-7433324-$ or US-7263070-$ or US-7218930-$ or US-7571014-$).did. or (US-20070022207-	US-PGPUB; USPAT; DERWENT	OR	ON	2009/11/25 15:16

		$ 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	51,442	(zone, media) near3 player$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/03 18:08
S63	20,532	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	1,599	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; 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	22,189	secure near2 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:21
S82	10,665	(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	8,495	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;	OR	ON	2011/10/11 12:23

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
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	2,098	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	45,961	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$3 near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:34
S106	27	S81 and S105	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:35
S107	39	S105 and (secure, private) near2 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/11 12:35
S108	14	S82 and S107	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:35
S109	4	S108 and (media, playback, zone) near2 (device, terminal, apparatus)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:42
S110	31	(US-20060142034-$ 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-$	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 12:48

		or US-20070214229-$ or US-7792311-$).did.				
S111	358,248	(media, playback, zone) near2 (device, terminal, apparatus, player)	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:20
S112	10,969	S111 and home near3 network	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/11 13:20
S113	1,507	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-$ 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-$ or US-20060075439-$ or US-20050058149-$ or US-20040022221-$ or US-20060287099-$ or US-20020124097-$ or US-20070168553-	US-PGPUB; USPAT; DERWENT	OR	ON	2011/10/22 21:43

		$ 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-	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/06/12 14:09

		$ 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-$).did.				
S131	21	S130 and button	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/06/12 14:11
S132	5,224	709/231.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:22
S133	4,802	370/254.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:22
S134	0	S132 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S135	17	S133 and SSID and WEP	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S136	2,189	"L5" and (wired, wireless)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/07/15 11:24
S147	77	(US-20060142034-$ 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-	US-PGPUB; USPAT; DERWENT	OR	OFF	2019/05/03 17:04

		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-$).did.				
S148	77	(US-20060142034-$ 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	1,737	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	4,974	(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; EPO; JPO; DERWENT	OR	ON	2019/05/15 19:40
S174	105	S173 and group$4 with player$1	USPAT; USOCR; EPO;	OR	ON	2019/05/15 19:40

			JPO; DERWENT			
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	475,824	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	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/05/26 18:20

		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.	DERWENT; IBM_TDB			
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	450,103	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
S185	75	S184 and ssid and wep and (join$3, access$3) near3 secure near network	US-PGPUB; USPAT; USOCR;	OR	OFF	2019/09/16 14:03

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
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
S207	525,345	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	2020/02/17 20:32
S208	678	S207 and ssid and wep near2 (key, password)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2020/02/17 20:32

			DERWENT; IBM_TDB			
S209	248	S208 and wlan	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/17 20:32
S210	58	S209 and join$3 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/17 20:32
S211	58	S210 and access near2 point	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/17 20:32
S212	263	((("MILLINGTON") near3 ("Nicholas")) OR (("HAINSWORTH") near3 ("Paul"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/02/17 20:33
S213	3	S212 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	2020/02/17 20:33
S214	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	2020/02/17 20:33
S215	4	S214 and access adj point and (mobile, controller)	US-PGPUB; USPAT	OR	ON	2020/02/17 20:33

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L11	9,132	709/220.ccls.	US-PGPUB; USPAT	OR	OFF	2020/09/23 02:11
L12	4,920	L11 and (wired, wireless)	US-PGPUB; USPAT	OR	ON	2020/09/23 02:11
L13	90	L12 and ssid and wep	US-PGPUB; USPAT	OR	ON	2020/09/23 02:11
L14	14	L13 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2020/09/23 02:11
L15	0	L14 and travers$4 with (access adj point, router)	US-PGPUB; USPAT	OR	ON	2020/09/23 02:12
S137	6,339	709/220.ccls.	US-PGPUB; USPAT	OR	OFF	2012/07/15 11:24
S138	3,105	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	1,080,521	@ad >="20040606" and @ad<="20060606"	US-PGPUB; USPAT	OR	ON	2012/07/15 11:29
S144	1,141	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	1,691	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
S195	9,128	709/220.ccls.	US-PGPUB; USPAT	OR	OFF	2019/11/11 23:58
S196	4,916	S195 and (wired, wireless)	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
S197	90	S196 and ssid and wep	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
S198	14	S197 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58

S199	1,765	H04L41/28$2.cpc.	US-PGPUB; USPAT	OR	OFF	2019/11/11 23:58
S200	39	S199 and ssid and wep	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
S201	14	S200 and wlan	US-PGPUB; USPAT	OR	OFF	2019/11/11 23:58
S202	14	S201 and (join$3, access$3) near3 network	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
S203	1,092,542	@ad >="20040606" and @ad<="20060606"	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
S204	1,287	S195 and S203	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
S205	19	S204 and ssid and wep	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58
S206	2	S205 and (zone, media) near2 player	US-PGPUB; USPAT	OR	ON	2019/11/11 23:58

9/23/2020 2:30:42 AM
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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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Art Unit	2451
Examiner Name	MADAMBA, GLENFORD J
Attorney Docket Number	05-0601-CON0120

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Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	09/23/2020

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	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

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)	2020-07-23
Name/Print	Brandon J. Kennedy	Registration Number	67894

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

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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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Doc code: IDS
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2414
Examiner Name	TBD
Attorney Docket Number	05-0601-CON0120

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	1	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.	
	2	Notice of Allowance mailed on 13 December 2016, issued in connection with U.S. Patent Application No. 15/080591, filed on 25 March 2016, 9 pages.	
	3	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.	
	4	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.	
	5	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.	
	6	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.	
	7	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.	
	8	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.	
	9	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.	
	10	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.	
	11	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.	

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	12	Notice of Allowance mailed on 15 November 2019, issued in connection with U.S. Patent Application No. 16/298515, filed on 11 March 2019, 8 pages.	
	13	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.	
	14	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.	
	15	Notice of Allowance mailed on 17 May 2018, issued in connection with U.S. Patent Application No. 14/805085, filed on 21 July 2015, 18 pages.	
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	18	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.	
	19	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.	
	20	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.	
	21	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.	
	22	Notice of Allowance mailed on 23 November 2016, issued in connection with U.S. Patent Application No. 14/803953, filed on 20 July 2015, 21 pages.	

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	23	Notice of Allowance mailed on 24 September 2015, issued in connection with U.S. Patent Application No. 13/705174, filed on 05 December 2012, 7 pages.	
	24	Notice of Allowance mailed on 24 September 2015, issued in connection with U.S. Patent Application No. 14/184935, filed on 20 February 2014, 7 pages.	
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	29	Notice of Allowance mailed on 27 April 2015, issued in connection with U.S. Patent Application No. 13/932864, filed on 01 July 2013, 20 pages.	
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	31	Notice of Allowance mailed on 27 August 2015, issued in connection with U.S. Patent Application No. 14/505027, filed on 02 October 2014, 18 pages.	
	32	Notice of Allowance mailed on 27 December 2011, issued in connection with U.S. Patent Application No. 10/816217, filed 01 April 2004, 15 pages.	
	33	Notice of Allowance mailed on 27 March 2017, issued in connection with U.S. Patent Application No. 15/089758, filed on 04 April 2016, 7 pages.	

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	34	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.	
	35	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.	
	36	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.	
	37	Notice of Allowance mailed on 29 April 2015, issued in connection with U.S. Patent Application No. 13/863083, filed on 15 April 2013, 19 pages.	
	38	Notice of Allowance mailed on 29 July 2015, issued in connection with U.S. Patent Application No. 13/359976, filed on 27 January 2012, 28 pages.	
	39	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.	
	40	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.	
	41	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.	
	42	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.	
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	45	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.	
	46	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.	
	47	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.	
	48	Notice of Incomplete Re-Exam Request mailed on 25 May 2017, issued in connection with U.S. Patent Application No. 90/013959 , filed on 01 April 2016, 10 pages.	
	49	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.	
	50	NUTZEL et al., "Sharing Systems for Future HiFi Systems," IEEE, 2004, 9 pages.	

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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	Glenford J. Madamba
Attorney Docket Number	05-0601-CON0120

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	2	6085236		2000-07-04	LEA; Rodger J.	
	3	6741708		2004-05-25	NAKATSUGAWA; Yoshinori.	
	4	7215649		2007-05-08	YU; Robert. et al.	
	5	7274761		2007-09-25	MULLER; Thomas. et al.	
	6	7690017		2010-03-30	STECYK; Polly. et al.	
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	1	20020083172		2002-06-27	KNOWLES; Gregory T. et al.	
	2	20020083342		2002-06-27	WEBB; Brian T. et al.	
	3	20020112084		2002-08-15	DEEN; Gary D. et al.	
	4	20020129128		2002-09-12	GOLD; Stephen. et al.	
	5	20030023411		2003-01-30	WITMER; Don. et al.	
	6	20030046703		2003-03-06	KNOWLES; Gregory T. et al.	
	7	20030100335		2003-05-29	GASSHO; Kazuhito. et al.	
	8	20040203936		2004-10-14	OGINO; Minoru. et al.	
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	2	Ashcraft et al. P4 Protocol Specification vo.2. April 6, 2002, 11 pages [online]. [retrieved on 2020-03-26]. Retrieved from the Internet URL: https://snarfed.org/p4protocol.	
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	5	Barix Download Exstreamer Software. Accessed via WayBack Machine, April 6, 2003. http://www.barix.com/estreamer/software.download.html. 2 pages. .	
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	8	Barrett, Ryan. (no title) Blog on P4Sync network and code, 1 page [online], [retrieved on 2020-03-26]. Retrieved from the Internet URL: https://snarfed.org.p4.	
	9	Bose. The Bose Lifestyle 50 System. Owner's Guide, October 17, 2001, 55 pages.	
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	Art Unit	2451
	Examiner Name	Glenford J. Madamba
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Name/Print	Zuha S. Irfan	Registration Number	72387

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Art Unit	2414
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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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Application Number	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2414
Examiner Name	TBD
Attorney Docket Number	05-0601-CON0120

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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-02-21
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	First Named Inventor	MILLINGTON; Nicholas A.J.
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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-07-23
Name/Print	Brandon J. Kennedy	Registration Number	67894

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	1	7076204		2006-07-11	RICHENSTEIN; Lawrence. et al.	
	2	7716375		2010-05-11	BLUM; Philipp. et al.	

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	1	20060287746		2006-12-21	BRAITHWAITE; Michael. et al.	

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	49	NewsRoom. Business Wire, Good Guys Unveils Top 10 Holiday Electronics Gifts; Advances in Technology and Lower Prices Across the Industry Make for Great Deals on In-Demand Products This Season, 3 December 2003, 3 pages.	
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Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	09/23/2020

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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)		
	Application Number	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

CERTIFICATION STATEMENT

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

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

OR

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See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-07-23
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.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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Doc description: Information Disclosure Statement (IDS) Filed

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Art Unit	2451
Examiner Name	Glenford J. Madamba
Attorney Docket Number	05-0601-CON0120

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	5	Sonos, Inc. v. Google LLC, Appendix A to Respondents' Response to the Complaint and Notice of Investigation, filed February 27, 2020, 2 pages. .	
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	12	Sonos v. Google. Respondents' Initial Invalidity Claim Charts for US Patent 9,195,258, Exhibits 1 - 10 and B, dated 29 April 2020, 345 pages. .	
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	29	Yamaha DME Designer 3.0 Owner's Manual; Copyright 2008, 501 pages.	

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Signature	/Zuha S. Irfan/	Date (YYYY-MM-DD)	2020-05-22
Name/Print	Zuha S. Irfan	Registration Number	72387

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Art Unit	2414
Examiner Name	TBD
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	1	Simple Service Discovery Protocol/1.0 Operating without an Arbiter (Oct. 28, 1999) (24 pages).	
	2	Sonos, Inc. v D&M Holdings, D&M Supp Opposition Brief including Exhibits, 17 March 2017, 23 pages.	
	3	Sonos, Inc. v. D&M Holdings, Expert Report of Jay P. Kesan including Appendices A-P, Feb. 20, 2017, 776 pages.	
	4	Sonos, Inc. v. D&M Holdings Inc. et al., Complaint for Patent Infringement, filed October 21, 2014, 20 pages.	
	5	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions, filed September 14, 2016, 100 pages.	
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	7	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Preliminary Identification of Indefinite Terms, provided July 29, 2016, 8 pages.	
	8	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' 35 U.S.C. § 282 Notice filed November 2, 2017, 31 pages.	
	9	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Amended Answer, Defenses, and Counterclaims for Patent Infringement, filed November 30, 2015, 47 pages.	
	10	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' Answer to Plaintiff's Second Amended Complaint, filed April 30, 2015, 19 pages.	
	11	Sonos, Inc. v. D&M Holdings Inc. et al., Defendants' First Amended Answer to Plaintiffs' Third Amended Complaint, filed September 7, 2016, 23 pages.	

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	12	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.	
	13	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.	
	14	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.	
	15	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.	
	16	Sonos, Inc. v. D&M Holdings Inc. et al., First Amended Complaint for Patent Infringement, filed December 17, 2014, 26 pages.	
	17	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.	
	18	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.	
	19	Sonos, Inc. v. D&M Holdings Inc. et al., Plaintiff Sonos, Inc.'s Opening Claim Construction Brief, filed September 9, 2016, 26 pages.	
	20	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.	
	21	Sonos, Inc. v. D&M Holdings Inc. et al., Reply Brief in Support of Defendants' Motion for Leave to Amend their Answer to Add the Defense of Inequitable Conduct, provided November 10, 2016, 16 pages.	
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	23	Sonos, Inc. v. D&M Holdings Inc. et al., Second Amended Complaint for Patent Infringement, filed February 27, 2015, 49 pages.	
	24	Sonos, Inc. v. D&M Holdings Inc. et al., Sonos's Motion to Strike Defendants' New Amended Answer Submitted with their Reply Brief, provided September 15, 2016, 10 pages.	
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	33	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 1: Defendants' Invalidity Contentions for U.S. Patent No. 7,571,014 filed September 16, 2016, 270 pages.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2414
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	Attorney Docket Number	05-0601-CON0120

	34	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.	
	35	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.	
	36	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.	
	37	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.	
	38	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.	
	39	Sonos, Inc. v. D&M Holdings Inc. et al., Defendant's Amended Invalidity Contentions Exhibit 5: Defendants' Invalidity Contentions for U.S. Patent No. 8,938,637 filed September 27, 2016, 213 pages.	
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	43	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.	
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	47	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.	
	48	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.	
	49	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.	
	50	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.	

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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	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-02-21
Name/Print	Brandon J. Kennedy	Registration Number	67894

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Application Number	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, GLENFORD J
Attorney Docket Number	05-0601-CON0120

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	40	Sonos, Inc. v. Google LLC. Respondents' Final Invalidity Claims Charts for US Patent 10,439,896, Exhibits 1-13, 15-16, and B, 1324 pages.	
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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-11-30
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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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

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: 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	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Attorney Docket Number	05-0601-CON0120

	1	Universal Scientific Industrial Co., Ltd., FCC ID: IXMWAA-B-AGB-01, Federal Communications Commission, Confidentiality Request, 1 page [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	2	Universal Scientific Industrial Co., Ltd., ID Label for USI WAA, USI WAA-B-AGB-01, FCC ID: IXMWAA-B-AGB-01, 1 page [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	3	Universal Scientific Industrial Co., Ltd., Label Location, USI WAA-B-AGB-01, FCC ID: IXMWAA-B-AGB-01, 30 October 2003, 1 page [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	4	Universal Scientific Industrial Co., Ltd., Power of Attorney, 1 page [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	5	Universal Serial Bus Specification Revision 2.0 April 27, 2000, 650 pages. [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	6	Wireless Music Console Network Setup, 8 pages. [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	7	Yamaha Corporation. Declaration of Dedicated RF card requirement to American Telecommunications Certification Body, Inc. 16 May 2003, 1 page [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	8	YAMAHA CORPORATION. Internal Photo, FCC ID: A6RMCX1000A, 5 pages [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	9	Yamaha Corporation. Letter of Agency to American Telecommunications Certification Body, Inc. 10 April 2003, 1 page. [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	10	YAMAHA CORPORATION. RF Exposure Statement No. 23GE0067-HO-2, Digital Audio Server, 1 page. [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	11	Yamaha. Manufacturer's Letter 10 April 2003, 2 pages [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2020-01-17
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	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

	12	Yamaha MCX-1000 FCC ID: ABFIMCX10000A, 1 page. [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	13	Yamaha. Request for Confidentiality. 10 April 2003, 1 page. [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	14	Zero Configuration Networking - Zeroconf. www.zeroconf.org, 4 pages [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	

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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)		
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	Attorney Docket Number	05-0601-CON0120

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)	2020-11-30
Name/Print	Brandon J. Kennedy	Registration Number	67,894

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Docket No. 05-0601-CON0120)

In re Application of: Sonos, Inc. Serial No.: 16/746,294 Filing Date: January 17, 2020 Title: Playback Device Connection	Confirmation No.: 1099 Examiner: MADAMBA, Glenford J. Group Art Unit: 2451

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: December 4, 2020

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Docket No. 05-0601-CON0120)

In the Application of: Sonos, Inc.	)	Examiner: Glenford Madamba
Application No.: 16/746,294	)	Group Art Unit: 2451
Filed: January 17, 2020	)	Confirmation No. 1099
Title: Playback Device Connection	)	

AMENDMENT PURSUANT TO 37 C.F.R. § 1.312

Pursuant to 37 CFR § 1.312, Applicant submits the following amendments to the claims after the Notice of Allowance mailed September 30, 2020.

Amendments to the Claims begin on page 2.

Remarks begin on page 11.

Applicant believes that no fee is due at this time, but the Commissioner is authorized to charge any fees to Deposit Account No. 506632 to the extent that a fee is required with this submission.

Claim Amendments

1. (Previously Presented) 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 a first set of one or more messages collectively indicating that the playback device is available for setup;

while in the setup mode, establishing an initial communication path with a computing device that is installed with software for controlling the playback device, wherein the computing device is connected to a secure wireless network for exchanging digital data packets that is defined by one or more network devices, and wherein the initial communication path with the computing device does not traverse any of the one or more network devices;

processing a second set of one or more messages received from the computing device via the initial communication path, wherein the second set of one or more messages collectively comprise network configuration parameters for the secure wireless network, and wherein the network configuration parameters comprise an identifier of the secure wireless network and security information for the secure wireless network;

using the network configuration parameters to connect to the secure wireless network; and

transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure wireless network.

2. (Previously Presented) The playback device of claim 1, wherein the triggering event comprises powering on the playback device.

3. (Previously Presented) The playback device of claim 1, wherein the initial communication path with the computing device comprises a direct communication path between the playback device and the computing device that does not traverse any of the one or more network devices.

4. (Previously Presented) 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 using the one or more network configuration parameters to connect to the secure wireless network, providing an indication that the playback device has connected to the secure wireless network.

5. (Previously Presented) The playback device of claim 4, wherein providing the indication comprises causing the computing device to present a visualization, via the software for

controlling the playback device, indicating that the playback device has connected to the secure wireless network.

6-9. (Canceled)

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

11. (Previously Presented) 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 wireless network, 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:

based on receiving the command, retrieving the audio content from the audio source via the communication path that includes the secure wireless network.

12. (Canceled)

13. (Previously Presented) The playback device of claim 1, wherein communicating with the computing device via the secure wireless network comprises receiving a command to form a group with at least one additional playback device that is connected to the secure wireless

network such that the playback device is configured to play back audio content in synchrony with the at least one additional playback device.

14. (Previously Presented) 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 a first set of one or more messages collectively indicating that the playback device is available for setup;

while in the setup mode, establishing an initial communication path with a computing device that is installed with software for controlling the playback device, wherein the computing device is connected to a secure wireless network for exchanging digital data packets that is defined by one or more network devices, and wherein the initial communication path with the computing device does not traverse any of the one or more network devices;

processing a second set of one or more messages received from the computing device via the initial communication path, wherein the second set of one or more messages collectively comprises network configuration parameters for the secure wireless network, and wherein the network configuration parameters comprise an identifier of the secure wireless network and security information for the secure wireless network;

using the network configuration parameters to connect to the secure wireless network; and

transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure wireless network.

15. (Previously Presented) The non-transitory, computer-readable storage medium of claim 14, wherein the triggering event comprises powering on the playback device.

16. (Previously Presented) 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 using the one or more network configuration parameters to connect to the secure wireless network, providing an indication that the playback device has connected to the secure wireless network.

17. (Currently Amended) The non-transitory, computer-readable storage medium of claim 16, wherein providing the indication comprises causing the computing device to present a visualization, via the ~~application software~~ for controlling the playback device, indicating that the playback device has been added to [[the]] a networked audio system.

18. (Canceled)

19. (Previously Presented) The non-transitory, computer-readable storage medium of claim 14, wherein communicating with the computing device via the secure wireless network

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 wireless network, 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:

based on to receiving the command, retrieving the audio content from the audio source via the communication path that includes the secure wireless network.

20. (Previously Presented) 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 a first set of one or more messages collectively indicating that the playback device is available for setup;

while in the setup mode, establishing an initial communication path with a computing device that is installed with software for controlling the playback device, wherein the computing device is connected to a secure wireless network for exchanging digital data packets that is defined by one or more network devices, and wherein the initial communication path with the computing device does not traverse any of the one or more network devices;

processing a second set of one or more messages received from the computing device via the initial communication path, wherein the second set of one or more messages collectively comprises network configuration parameters for the secure wireless network, and wherein the network configuration parameters comprise an identifier of the secure wireless network and security information for the secure wireless network;

using the network configuration parameters to connect to the secure wireless network; and

transitioning from communicating with the computing device via the initial communication path to communicating with the computing device via the secure wireless network.

21. (Previously Presented) The playback device of claim 13, wherein the playback device and the at least one additional playback device are associated with a common networked-audio-system identifier.

22. (Previously Presented) The playback device of claim 21, wherein the computing device is associated with the common networked-audio-system identifier.

23. (Previously Presented) The playback device of claim 13, wherein communicating with the computing device via the secure wireless network further comprises receiving a command to adjust a volume of the group of playback devices, 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:

based on the command to adjust the volume of the group, (a) causing an adjustment of an individual volume of the playback device and (b) transmitting, to the at least one additional playback device via the secure wireless network, a command to adjust an individual volume of the at least one additional playback device.

24. (Previously Presented) The playback device of claim 1, wherein, after using the network configuration parameters to connect to the secure wireless network, the playback device is included in the one or more network devices that define the secure wireless network.

25. (Previously Presented) The playback device of claim 1, wherein, after using the network configuration parameters to connect to the secure wireless network, the playback device is associated with a networked-audio-system identifier that is defined based on user input provided via the software for controlling the playback device.

26. (Previously Presented) The playback device of claim 1, wherein the first set of one or more messages is a single first message.

27. (Previously Presented) The playback device of claim 1, wherein the second set of one or more messages is a single second message that contains both the identifier of the secure wireless network and the security information for the secure wireless network.

28. (Previously Presented) The playback device of claim 1, wherein the security information for the secure wireless network comprises a security key.

29. (Previously Presented) The playback device of claim 1, wherein the secure wireless network comprises a local area network (LAN).

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

after connecting to the secure wireless network, joining a networked audio system that is operating on the secure wireless network.

31. (Previously Presented) The playback device of claim 30, wherein the software for controlling the playback device comprises software for controlling the networked audio system.

REMARKS

As noted in the Notice of Allowance mailed September 30, 2020, claims 1-5, 10-11, 13-17, and 19-31 of the present application are currently allowed, of which claims 1, 14, and 20 are independent and the remainder are dependent.

Applicant has amended claim 17 to correct minor antecedent basis errors. No new matter has been added by way of these amendments. Because the amendments are ministerial in nature and/or do not change the scope of the allowed claims, Applicant respectfully requests that the Office enter the amendments pursuant to 37 C.F.R. § 1.312.

Should the Examiner wish to discuss this case with the undersigned, the Examiner is invited to call the undersigned at (312) 754-9315.

Respectfully submitted,

LEE SULLIVAN SHEA & SMITH LLP

Date: December 4, 2020

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/746,294	01/17/2020	Nicholas A.J. Millington	05-0601-CON0120	1099

135176 7590 12/28/2020

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
12/28/2020	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
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Response to Rule 312 Communication	Application No.	Applicant(s)	
	16/746,294	Millington et al.	
	Examiner	Art Unit	AIA (FITF) Status
	GLENFORD J MADAMBA	2451	No

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

1. ☑ The amendment filed on 04 December 2020 under 37 CFR 1.312 has been considered, and has been:
   a) ☑ entered.
   b) ☐ entered as directed to matters of form not affecting the scope of the invention.
   c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
      Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.
   d) ☐ disapproved. See explanation below.
   e) ☐ entered in part. See explanation below.

/GLENFORD J MADAMBA/
Primary Examiner, Art Unit 2451

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

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

Application Number	16746294
Filing Date	2020-01-17
First Named Inventor	MILLINGTON; Nicholas A.J.
Art Unit	2451
Examiner Name	MADAMBA, GLENFORD J
Attorney Docket Number	05-0601-CON0120

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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	6208846		2001-03-27	CHEN; Young-Kai et al.	
	2	6571103		2003-05-27	NOVAKOV; Emil P.	

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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	44	The Measurement of Conducted Spurious Emissions, Conducted Spurious Emissions Measurement, ADT No. 921020H02, 5 pages [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
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	Attorney Docket Number	05-0601-CON0120

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

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

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See attached certification statement.

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A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-11-30
Name/Print	Brandon J. Kennedy	Registration Number	67,894

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

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	1	Universal Scientific Industrial Co., Ltd., FCC ID: IXMWAA-B-AGB-01, Federal Communications Commission, Confidentiality Request, 1 page [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
	2	Universal Scientific Industrial Co., Ltd., ID Label for USI WAA, USI WAA-B-AGB-01, FCC ID: IXMWAA-B-AGB-01, 1 page [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
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	8	YAMAHA CORPORATION. Internal Photo, FCC ID: A6RMCX1000A, 5 pages [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
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	12	Yamaha MCX-1000 FCC ID: ABFIMCX10000A, 1 page. [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	
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	14	Zero Configuration Networking - Zeroconf. www.zeroconf.org, 4 pages [produced by Google in Inv. No. 337-TA-1191 on September 4, 2020].	

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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

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Signature	/Brandon J. Kennedy/	Date (YYYY-MM-DD)	2020-11-30
Name/Print	Brandon J. Kennedy	Registration Number	67,894

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

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

Privacy Act Statement

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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

Please ENTER the amendment(s) filed with A,NA dated 12/4/2020. Thanks. /GJM/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Docket No. 05-0601-CON0120)

In the Application of: Sonos, Inc.	)	Examiner: Glenford Madamba
Application No.: 16/746,294	)	Group Art Unit: 2451
Filed: January 17, 2020	)	Confirmation No. 1099
Title: Playback Device Connection	)	

AMENDMENT PURSUANT TO 37 C.F.R. § 1.312

Pursuant to 37 CFR § 1.312, Applicant submits the following amendments to the claims after the Notice of Allowance mailed September 30, 2020.

Amendments to the Claims begin on page 2.

Remarks begin on page 11.

Applicant believes that no fee is due at this time, but the Commissioner is authorized to charge any fees to Deposit Account No. 506632 to the extent that a fee is required with this submission.

Doc Code: QPIDS.REQ
Document Description: QuickPath Information Disclosure Statement

PTO/SB/09 (09-18)

CERTIFICATION AND REQUEST FOR CONSIDERATION OF AN INFORMATION DISCLOSURE STATEMENT FILED AFTER PAYMENT OF THE ISSUE FEE UNDER THE QPIDS PROGRAM

Non-Provisional Application Number: 16/746,294	Filing Date: 2020-01-17
First Named Inventor: Nicholas A.J. Millington	Title of Invention: PLAYBACK DEVICE CONNECTION

THE UNDERSIGNED HEREBY CERTIFIES AND REQUESTS THE FOLLOWING FOR THE ABOVE-IDENTIFIED APPLICATION.

1. Consideration is requested of the information disclosure statement (IDS) submitted herewith, which is being filed after payment of the issue fee.
2. Check the box next to the appropriate selection:

   ☐ Each item of information contained in the IDS 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 IDS. See 37 CFR 1.97(e)(1).

   OR

   ☑ No item of information contained in the IDS 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 IDS was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the IDS. See 37 CFR 1.97(e)(2).

   OR

   ☐ See attached certification statement in compliance with 37 CFR 1.97(e).
3. Please charge the IDS fee set forth in 37 CFR 1.17(p) to Deposit Account No. 506632.
4. A Petition to Withdraw from Issue After Payment of the Issue Fee (37 CFR 1.313(c)(2)), including the petition fee set forth in 37 CFR 1.17(h), is submitted herewith as a **Web-based ePetition**. **WARNING:** Do not submit the petition as a follow-on paper via EFS-Web. Submit the petition as a Web-based ePetition by signing on to EFS-Web as a registered user, selecting the radio button next to "Existing application/patent," and then selecting the radio button next to "ePetition (for automatic processing and immediate grant, if all petitions requirements are met)." Failure to use the Web-based ePetition interface will result in automatic entry of the RCE.
5. A request for continued examination (RCE) under 37 CFR 1.114 and the RCE fee under 37 CFR 1.17(e) are submitted herewith.
6. The RCE will be treated as a "conditional" RCE. In the event the examiner determines that any item of information contained in the IDS necessitates the reopening of prosecution in the application, the undersigned understands that (i) the RCE will be processed and treated as an RCE under 37 CFR 1.114 and therefore (ii) the IDS fee under 37 CFR 1.17(p) will be returned in accordance with 37 CFR 1.97(b)(4). In the event that no item of information in the IDS necessitates reopening prosecution, the undersigned understands that the RCE will not be processed and the RCE fee under 37 CFR 1.17(e) will be returned.
7. This certification and request is being filed as a **Web-based ePetition** and is not accompanied by an amendment to the application. Inclusion of an amendment will result in automatic entry of the RCE.

Signature /Brandon J. Kennedy/	Date 2021-01-29
Name (Print/Typed) Brandon J. Kennedy	Practitioner Registration Number (If applicable) 67894

Note: *Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below.**

☑ *Total of 1 forms are submitted.

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

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.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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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	16746294
	Filing Date	2020-01-17
	First Named Inventor	MILLINGTON; Nicholas A.J.
	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

U.S.PATENTS Remove

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

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

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

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

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	None						

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

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16746294
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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-CON0120

	1	Evans, D. In-home Wireless Networking: An Entertainment Perspective. Electronics and Communication Engineering Journal, October 2001, 7 pages [produced by Google in Inv. No. 337-TA-1191 on December 9, 2020].	
	2	Hara, Yoshiko. Digital Home Working Group to seek platform compatibility. 27 June 2003, 2 pages [produced by Google in Inv. No. 337-TA-1191 on December 9, 2020].	
	3	Ho et al. TUAM 2.4. UWB Technology for Wireless Video Networking. Fantasma Networks, 2001, 2 pages [produced by Google in Inv. No. 337-TA-1191 on December 9, 2020].	
	4	Kangas, Mauri. Authentication and Authorization in Universal Plug and Play Home Networks. Helsinki University of Technology, 12 pages [produced by Google in Inv. No. 337-TA-1191 on December 9, 2020].	
	5	Notice of Allowance mailed on 30 November 2020, issued in connection with U.S. Patent Application No. 17/018401, filed on 11 September 2020, 9 pages.	
	6	Sonos, Inc. v. Google LLC, Expert Report of Matthew B. Shoemake, PH.D., Regarding the Invalidity of U.S. Patent No. 10,439,896 [Redacted 9 December 2020] dated 23 October 2020, 659 pages.	
	7	Universal Serial Bus Specification Revision 1.1 September 23, 1998, 327 pages. [produced by Google in Inv. No. 337-TA-1191 on December 9, 2020].	
	8	Win98/ME:No Installation Code, 6pages. [produced by Google in Inv. No. 337-TA-1191 on December 9, 2020].	
	9	Windows Executable 32bit for Windows 95 and Windows NT, 4 pages. [produced by Google in Inv. No. 337-TA-1191 on December 9, 2020].	
	10	Zero Configuration Networking - Zeroconf. Chairs, 3 pages [produced by Google in Inv. No. 337-TA-1191 on December 9, 2020].	
	11	Zero Configuration Networking - Zeroconf. www.zeroconf.org, 4 pages [produced by Google in Inv. No. 337-TA-1191 on December 9, 2020].	

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	Art Unit	2451
	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

	12	Sonos, Inc. v. Google LLC, Rebuttal Expert Report of Jon B. Weissman, Regarding Validity of U.S. Patent No. 10,439,896 [Redacted 29 January 2021] dated 13 November 2020, 417 pages	
	13	Sonos, Inc. v. Google LLC, Direct Witness Statement of Matthew Shoemake [Redacted 29 January 2021] dated 18 December 2020, 646 pages	
	14	Sonos, Inc. v. Google LLC, Rebuttal Witness Statement of Jon B. Weissman Regarding Validity of U.S. Patent No. 8,588,949 and 10,439,896 [Redacted 29 January 2021] dated 8 January 2021, 736 pages	
	15	Sonos, Inc. v. Google LLC, Respondent Google's Pre-Trial Brief [Redacted 29 January 2021] dated 22 January 2021, 516 pages	
	16	Sonos, Inc. v. Google LLC, Complainant Sonos, Inc.'s Pre-Hearing Brief [Redacted 29 January 2021] dated 22 January 2021, 513 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.

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	Examiner Name	MADAMBA, GLENFORD J
	Attorney Docket Number	05-0601-CON0120

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)	2021-01-29
Name/Print	Brandon J. Kennedy	Registration Number	67894

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UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/746,294	01/17/2020	Nicholas A.J. Millington	05-0601-CON0120	1099

135176 7590 02/26/2021

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
02/26/2021	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

Notice of Allowability	Application No. 16/746,294	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 30 January 2021.
   ☐ 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 1-5,10-11,13-17 and 19-31 . 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

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/746,294	03/30/2021	10965545	05-0601-CON0120	1099

135176 7590 03/10/2021

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

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

The Patent Term Adjustment is 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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