DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

TITLE OF INVENTION	APPARATUS AND METHOD FOR SEAMLESS COMMISIONING OF WIRELESS DEVICES

This is a combined declaration and assignment by the inventor(s) named below to the assignee named below.

I. Declaration and Related Statements

As a below named inventor, I hereby declare that:

This declaration is directed to:

The attached application; or

United States application or PCT International application number _____

filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

II. Assignment

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on even date herewith;

AND WHEREAS, **MOBIPLUG NETWORKS INC.** together with any successors, legal representatives, or assigns thereof, with its principal office at 2060 Broadway St., Suite 380, Boulder, CO 80302, wants to acquire the entire right, title and interest in and to the said invention(s), and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to the said **MOBIPLUG NETWORKS INC.**, its successors and assigns, the entire right, title and interest in and to the said invention and in and to the said application and all patents which may be granted thereon, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I/we hereby authorize and request the Commissioner of Patents, and any officials of foreign countries whose duty it is to issue patents on applications, to issue all patents for said invention, or patents resulting therefrom, insofar as my interest in concerned, to the said **MOBIPLUG NETWORKS INC.** as assignee of my entire right, title and interest;

I ALSO HEREBY sell and assign to **MOBIPLUG NETWORKS INC.**, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights;

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AND I HEREBY covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

AND I HEREBY further covenant that I will communicate to said **MOBIPLUG NETWORKS INC.**, or to its successors, assigns and legal representatives, any facts known to me respecting said invention, and at the expense of said **MOBIPLUG NETWORKS INC.**, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said **MOBIPLUG NETWORKS INC.**, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

III. Signatures

A. Inventors

Signature: *Jeffrey P. Mathews*	**Date:** 3/5/13
Signature: *Lee R. Taylor*	**Date:** 3/5/13

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	MBPG.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
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☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jeffrey	P.	Mathews	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Longmont	State/Province	CO	Country of Residence i	US

Mailing Address of Inventor:

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Address 2			
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Postal Code	80503	**Country** i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Lee	R.	Taylor	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

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Mailing Address of Inventor:

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City	Boulder	**State/Province**	CO
Postal Code	80301	**Country** i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

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☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	23669		
Email Address	ptohlg@me.com	Add Email	Remove Email

Application Information:

Title of the Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES		
Attorney Docket Number	MBPG.0101	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	6	**Suggested Figure for Publication (if any)**	3

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

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Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
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This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61622620	2012-04-11

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	MBPG.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) [i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

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Application Number	Country [i]	Filing Date (YYYY-MM-DD)	Access Code [i] (if applicable)

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Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

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☒ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	MBPG.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	Mobiplug Networks Inc.		
Mailing Address Information:			
Address 1	2060 Broadway St., Suite 380		
Address 2			
City	Boulder	**State/Province**	CO
Country [i]	US	Postal Code	80302
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	MBPG.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

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Signature:

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Signature	/Richard K. Huffman/			Date (YYYY-MM-DD)	2013-03-15
First Name	Richard	Last Name	Huffman	Registration Number	41082

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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.

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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DOCKET: MBPG.0101

APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

by

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Lee R. Taylor

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Address correspondence to:

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Customer Number 23669

TITLE

APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

by

Jeffrey P. Mathews

Lee R. Taylor

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the benefit of the following U.S. Provisional Applications, each of which is herein incorporated by reference for all intents and purposes.

SERIAL NUMBER	FILING DATE	TITLE
61622620 (MBPG.0101)	04/11/2012	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

[0002] This invention relates in general to the field of electronic device commissioning, and more particularly to an apparatus and method for seamless commissioning of electronic devices onto wireless local area networks (WLANs).

DESCRIPTION OF THE RELATED ART

[0003] It is almost incredible to realize the number of electronic devices that exist today, and even more so when one considers the exponentially increasing number of those

devices that are configured for wireless network integration. On the business front, laptop computers, smart phones, and tablet computers abound. On the personal front, home automation is crossing thresholds which have heretofore been untouched. Today's average consumer has access to the Internet via a high speed connection and most probably has a wireless network in their home. Attached to that wireless network are home computers, digital readers, wireless printers, and some form of wireless entertainment equipment, such as streaming media players and the like.

[0004] On top of this, everyday appliances such as door locks, thermostats, garage door openers, outlets, and light switches are now being configured for wireless operation. Both businesses and homes frequently are equipped with alarm systems that function wirelessly. The list continues to grow.

But as one skilled in the art will appreciate, wireless electronic devices do not merely connect themselves to the nearest wireless network. Rather, they must be "commissioned" onto a desired network. That is, the particular devices must be provided with configuration data to enable them to join the desired wireless network so that they can function according to specification by utilizing the communication properties of the network.

Yet, at this point in time, virtually every electronic device is different in the manner in which they are commissioned onto a wireless network. Some devices require a sequence of switch actuations that are coordinated with similar actuations on a controller device. Other devices have rudimentary keypads whereby a user enters the configuration information, often in cryptic and unintelligible form. Still other devices have keypads and displays that allow for data entry that is somewhat more user friendly. Yet more devices utilize other coupled devices (e.g., televisions and special remote controls) to enter network names and passwords. And as a result, the average user of these wireless devices must either be very smart, or they require assistance from someone who is knowledgeable.

Accordingly, what is needed is a technique for commissioning a wireless device onto a wireless network that the average consumer can employ without undue distress.

In addition, what is needed is a mechanism for commissioning wireless devices that utilizes common, user friendly steps and equipment.

SUMMARY OF THE INVENTION

[0005] The present invention, among other applications, is directed to solving the above-noted problems and addresses other problems, disadvantages, and limitations of the prior art. The present invention provides a superior technique for commissioning one or more electronic devices onto an existing wireless local area network. In one embodiment an apparatus is provided for commissioning a target device onto a wireless local area network (WLAN). The apparatus includes a smart wireless device. The smart wireless device has commissioning logic and a transducer. The commissioning logic is configured to format and direct transmission of one or more WLAN configuration packets that convey WLAN configuration data. The transducer is coupled to the commissioning logic, and is configured to transmit the one or more WLAN configuration packets over the transmission path to the target device, wherein the transducer is an existing component of the smart wireless device.

[0006] One aspect of the present invention contemplates an apparatus for wireless local area network (WLAN) device commissioning. The apparatus has a smart wireless device and a target device. The smart wireless device includes first commissioning logic and a first transducer. The first commissioning logic is configured to format and direct transmission of one or more WLAN configuration packets. The first transducer is coupled to the first commissioning logic, and is configured to transmit the one or more WLAN configuration packets over the transmission path, where the first transducer is an existing component of the smart wireless device. The target device includes a second transducer, second commissioning logic, and a wireless radio. The second transducer is configured to receive the one or more WLAN configuration packets. The second

commissioning logic is coupled to the second transducer, and is configured to decode and process the one or more WLAN configuration packets to recover WLAN configuration data. The wireless radio is operatively coupled to the commissioning logic, and is configured to employ the WLAN configuration data to enable the target device to join a WLAN.

[0007] Another aspect of the present invention comprehends a method for wireless local area network (WLAN) device commissioning. The method includes: executing a first application on a smart wireless device to format and direct transmission of one or more WLAN packets; via a first transducer of the smart wireless device, transmitting the one or more WLAN configuration packets over a transmission path, where the first transducer is an existing component of the smart wireless device; via a second transducer disposed within a target device, receiving the one or more WLAN configuration packets; executing a second application on the target device to decode and process the one or more WLAN configuration packets to recover WLAN configuration data; and via a wireless radio disposed within the target device, employing the WLAN configuration data to enable the target device to join a WLAN.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] These and other objects, features, and advantages of the present invention will become better understood with regard to the following description, and accompanying drawings where:

[0009] FIGURE 1 is a block diagram illustrating a present day device commissioning technique;

[0010] FIGURE 2 is a block diagram depicting present day commissioning mechanisms such as might be employed in the technique of FIGURE 1;

[0011] FIGURE 3 is a block diagram featuring an exemplary seamless device commissioning technique according to the present invention;

[0012] FIGURE 4 is a block diagram showing a smart wireless commissioning device according to the present invention;

[0013] FIGURE 5 is a block diagram illustrating a commissioned device according to the present invention;

[0014] FIGURE 6 is a block diagram detailing features of an exemplary commissioning device according to the present invention;

[0015] FIGURE 7 is a block diagram showing details of an exemplary commissioned device according to the present invention; and

[0016] FIGURE 8 is a block diagram illustrating an exemplary commissioning packet according to the present invention.

DETAILED DESCRIPTION

[0017] Exemplary and illustrative embodiments of the invention are described below. In the interest of clarity, not all features of an actual implementation are described in this specification, for those skilled in the art will appreciate that in the development of any such actual embodiment, numerous implementation specific decisions are made to achieve specific goals, such as compliance with system-related and business related constraints, which vary from one implementation to another. Furthermore, it will be appreciated that such a development effort might be complex and time-consuming, but would nevertheless be a routine undertaking for those of ordinary skill in the art having the benefit of this disclosure. Various modifications to the preferred embodiment will be apparent to those skilled in the art, and the general principles defined herein may be applied to other embodiments. Therefore, the present invention is not intended to be

limited to the particular embodiments shown and described herein, but is to be accorded the widest scope consistent with the principles and novel features herein disclosed.

[0018] The present invention will now be described with reference to the attached figures. Various structures, systems, and devices are schematically depicted in the drawings for purposes of explanation only and so as to not obscure the present invention with details that are well known to those skilled in the art. Nevertheless, the attached drawings are included to describe and explain illustrative examples of the present invention. The words and phrases used herein should be understood and interpreted to have a meaning consistent with the understanding of those words and phrases by those skilled in the relevant art. No special definition of a term or phrase (i.e., a definition that is different from the ordinary and customary meaning as understood by those skilled in the art) is intended to be implied by consistent usage of the term or phrase herein. To the extent that a term or phrase is intended to have a special meaning (i.e., a meaning other than that understood by skilled artisans) such a special definition will be expressly set forth in the specification in a definitional manner that directly and unequivocally provides the special definition for the term or phrase.

[0019] In view of the above background discussion on device commissioning and associated techniques employed within present day systems for commissioning a wireless device into a wireless network, a discussion of the limitations of these present day mechanisms will now be discussed with reference to FIGURES 1-2. Following this, a discussion of the present invention will be presented with reference to FIGURES 3-8. The present invention overcomes limitations of present day device commissioning techniques by providing apparatus and methods that enable devices to be commissioned into a wireless network without requiring special purpose commissioning hardware, administrative access to network equipment, the creation of ad hoc networks, or compromises to operational security.

[0020] Turning to FIGURE 1, a block diagram 100 is presented illustrating a present day device commissioning technique. The diagram 100 depicts a wireless local area network

(WLAN) access point 101 that controls access to and communications over a WLAN 104. As one skilled in the art will appreciate, the access point 101 may also be referred to as a Wi-Fi access point 101, a Wi-Fi router 101, a Wi-Fi gateway 101, a Wi-Fi hub 101, and the like which refer to a controller 101 that allows electronic devices 105-107 to exchange data wirelessly over a wireless network 104. Often, the network 104 utilizes protocols based on the Institute of Electrical and Electronics Engineers' (IEEE) 802.11 standards, however, such references are not intended to limit protocols of the network 104 to 802.11, but rather reference is made to the well known 802.11 standards in order to teach aspects of the present invention.

[0021] The WLAN access point 101 is coupled via bus 103 to the Internet in any of number of well known ways to include digital subscriber line (DSL), cable, and wireless radio link. As such, the access point 101 enables the devices 105-107 to communicate with each other, and also to other devices (not shown) over the Internet 102.

[0022] The diagram 100 shows a printer 105 and a digital media receiver 106 (e.g., APPLETV®, ROKU®, DIRECTV®) that are coupled to the access point 101 via the WLAN 104. The diagram additionally shows an other device 107 that is not yet coupled to the access point 101 via the WLAN 104, and which requires commissioning into the WLAN 104. As one skilled in the art will appreciate, the other device 107 may comprise, but is not limited to a personal computer, a video game console, a smartphone, a tablet computer, an alarm console, a streaming media player, network attached storage, and any number of other Wi-Fi enabled appliances (e.g., outlets, lights, locks, sensors, etc.). Although reference is made to "Wi-Fi enabled appliances," the present inventors noted that applications of the present invention extend beyond commonly construed "Wi-Fi" protocols (i.e., IEEE 802.11 protocols) to comprehend any wireless protocol, as will be discussed in further detail below. For purposes of the present disclosure, "commissioning" is construed to mean configuration of the other device 107 and the system 100 as a whole such that the other device 107 is enabled to function properly over the WLAN 104 including, if required, access to the Internet 102.

[0023] As one skilled in the art will appreciate, there are a number of varying techniques that may be employed to commission present day devices onto a WLAN 104. Some of these techniques require operator intervention, some require the use of special purpose commissioning equipment 108, and some require the creation of temporary (or *ad hoc*) wireless networks 109. And the present inventors have noted that as wireless device usage proliferates in the office and the home, this cornucopia of commissioning techniques poses challenges to those in the art, because each individual technique is limited with regard to one system attribute or another. A more detailed discussion of the limitations associated with present day commissioning techniques will now be presented with reference to FIGURE 2.

[0024] FIGURE 2 is a block diagram 200 depicting present day commissioning mechanisms such as might be employed in the technique of FIGURE 1. The diagram 200 depicts a WLAN access point 201 that is coupled to the Internet 202 via a bus 203, and which controls access to a wireless LAN 204. Operationally, the access point 201 functions substantially like the access point 101 of FIGURE 1. A printer 205 is coupled to the access point 201 via the WLAN 204. The printer 205 has a controller 215 that is coupled to a keyboard 216 and display 217. The diagram 200 also shows a digital media receiver 206 that is coupled to the access point 201 via the WLAN 204. The receiver 206 is also coupled to a remote controller 213 via a radio wave bus 218, and to a video display 214 (e.g., a television) via bus 219. The diagram 200 additionally depicts an other device 207 that requires commissioning onto the WLAN 204. The other device 207 includes a controller 208 that is coupled to a pushbutton switch 212.

[0025] The particular elements shown in FIGURE 2 are well known to those in the art and are selected to illustrate limitations associated with some of the most prevalently employed present day commissioning techniques. For example, one well known commissioning technique utilizes coordinated activation of pushbutton switches to initiate the exchange of configuration data so that, say, the other device 207 can join the WLAN 204. Accordingly, a commissioning pushbutton switch 211 is shown on the

access point 201, which functions in this scenario as a system controller for the other device 207. Thus, a technician is required to perform a time synchronized actuation of the pushbutton switches 211, 212 on both the access point and the other device 207 and by doing so, the access point 201 begins transmission of packets that include configuration data, thus enabling the other device 207 to subsequently join the WLAN 204. Transmission of this configuration data is typically accomplished utilizing the same radio transceivers (not shown) as are required for interoperability over the WLAN 204 itself. But the present inventors have observed that this "pushbutton" commissioning technique is disadvantageous because physical and/or administrative access to the access point 201 is required in order to accomplish commissioning of the other device 207, and in office and other scenarios where security concerns are paramount, such access may not be easily obtained.

[0026] Another well known present day commissioning technique provides for the direct entry of device configuration data utilizing integral or directly coupled controls and displays. For instance, consider a scenario under which an operator may commission the printer 205 onto the WLAN 204 by performing a series of data entry steps via the keypad 216 and display 217. The operator may select from a menu of WLAN types and then the printer 205 will monitor for available networks of that type, thus allowing the operator to select from a menu of available networks. The operator may then be required to enter secure access information (e.g., passwords, etc.) to enable the printer to join the WLAN.

[0027] Or consider a more intelligent commissioning technique where, say, the digital media receiver 206 possesses the capabilities to determine the appropriate WLAN 204 to join, and all that is needed is for the operator to enter a personal identification number (PIN) via the remote controller 213 and verify configuration setup via the video display 214.

[0028] The above commissioning techniques may be categorized in general as Wi-Fi protected setup techniques, and are well known to those in the art. Other techniques also include the use of near-field communications and the use of a direct connection such as

Universal Serial Bus (USB). In more extreme cases, a device to be commissioned (e.g., the other device 207), may create a temporary network and require the operator to configure a computing device (not shown) to join the temporary network. Then, the computing device is subsequently used to issue commands and configuration data to the devices, thus allowing it to join the intended WLAN 204.

[0029] Alternatively, the device to be commissioned may be required to monitor for specially formatted probes or beacon request messages in order to decode network configuration data therefrom. Such a scenario could be employed utilizing the pushbutton method discussed above.

[0030] The present inventors note that, as one skilled in the art will appreciate, virtually all of the above noted commissioning techniques require physical and/or administrative access to either the access point 201 or to special commissioning equipment which, as is alluded to above, may not be easily obtained. It is also noted that commissioning techniques that involve the use of PINs and/or the direct entry of configuration data present the opportunity for tampering and or breech of security through the compromise of trusted data. It is furthermore noted that the creation of near-field communications and ad hoc networks requires dedicated equipment for such purposes. And moreover, all of the techniques discussed above present challenges to those other than a skilled technician. A typical operator may not be skilled in the entry of network configuration data or configuration of special commissioning equipment. In addition, for those techniques that temporarily open a network in order to commission as device, such an action is both observable and sniffable, thus providing a pathway for exploitation of the compromised parameter that allow unauthorized users and devices to join the network at a later time. Consequently, the wide range of complex commissioning techniques are challenging those in the art to develop more user-friendly, secure, and effective mechanisms for device commissioning than have heretofore been provided. More specifically, with the exponential increase in the deployment of wireless devices in the marketplace, those in

the art are motivated to provide commissioning techniques that a typical user can perform without problems.

[0031] The present invention overcomes the above noted limitations, and others, by providing an apparatus and method for seamless device commissioning which, in one embodiment, leverages the ubiquitous nature and use of so-called "smart" wireless devices in the home and office. The present invention will now be discussed with reference to FIGURES 3-8.

[0032] Turning to FIGURE 3, a block diagram 300 is presented featuring an exemplary seamless device commissioning technique according to the present invention. The diagram. The diagram 300 depicts a wireless local area network (WLAN) access point 301 that controls access to and communications over a WLAN 304. Like the access point 101 of FIGURE 1, the access point 301 according to the present invention allows electronic devices 305-307 to exchange data wirelessly over the wireless network 304 once the devices 305-307 are commissioned onto the WLAN 304. In one embodiment, the network 304 utilizes protocols based on the Institute of Electrical and Electronics Engineers' (IEEE) 802.11 standards, however, such references are not intended to limit protocols of the network 304 to 802.11, but rather reference is made to the well known 802.11 standards in order to teach aspects of the present invention.

[0033] The WLAN access point 301 is coupled via bus 303 to the Internet in any of number of well known ways to include digital subscriber line (DSL), cable, and wireless radio link. As such, the access point 301 enables the devices 305-307 to communicate with each other, and also to other devices (not shown) over the Internet 302.

[0034] The diagram 300 shows a printer 305 and a digital media receiver 306 (e.g., APPLETV®, ROKU®, DIRECTV®) that are coupled to the access point 301 via the WLAN 304. The diagram additionally shows an other device 307 that is not yet coupled to the access point 301 via the WLAN 304, and which requires commissioning into the WLAN 104. As one skilled in the art will appreciate, the other device 307 may comprise,

but is not limited to a personal computer, a video game console, a smartphone, a tablet computer, an alarm console, a streaming media player, network attached storage, and any number of other Wi-Fi enabled appliances (e.g., outlets, lights, locks, sensors, etc.).

[0035] Like the printer 205 of FIGURE 2, the printer 305 of FIGURE 3 includes a controller 315 that is coupled to a keyboard 316 and a display 317, which are employed according to one of the present day methods described above to commission the printer 305 onto the WLAN 304. And like the receiver 206 of FIGURE 2, the receiver 306 of FIGURE 3 is coupled to a remote controller 313 via bus 318 and a video display 314 via bus 319, which are employed according to one of the present day methods described above to commission the receiver 306 onto the WLAN 304.

[0036] However, in contrast to present day commissioning techniques, the technique according to the present invention utilizes a smart wireless device 321 to commission the other device 307 according to the present invention onto the WLAN 304 by utilizing existing mechanisms (i.e., transmitting elements (not shown)) on the smart wireless device 321 to transmit configuration information over a transmission path 322 to the other device 307, thus enabling the other device 307 to join the WLAN. The other device 307 is configured to include receiving elements (not shown) that correspond to the transmitting elements and transmission path 322, thus enabling the other device 307 to receive and process the configuration information. It is a feature of the present invention to employ a smart wireless device 321 and to utilize existing elements within the smart wireless device 321 to transmit the configuration information to the other device such as an internal microcomputer, memory, a camera flash, backlit display, touchscreen or keyboard, and the like. Advantageously then, commissioning can be affected without a requirement for special commissioning equipment or special user skills.

[0037] In one embodiment, the smart wireless device 321 comprises a smart cellular telephone such as, but not limited to, an IPHONE® or ANDROID® phone. In another embodiment, the smart wireless device 321 comprises a tablet computer such as, but not limited to, an IPAD® or an ANDROID® tablet. Other embodiments of the smart

wireless device 321 are contemplated which are capable of providing the functions and mechanisms discussed below.

[0038] In one embodiment, the smart wireless device 321 utilizes a side band, proximity based, communication channel 322 that is established between a the smart wireless device 321 and the other device 307 to be commissioned onto the WLAN 304. The transmitting and receiving elements perform the functions and operations as discussed above. The transmitting and receiving elements comprise logic, circuits, devices, or program instructions executed by a microprocessor or other processing unit, or a combination of logic, circuits, devices, or program instructions executing on a microprocessor of other processing unit, or equivalent elements that are employed to execute the functions and operations according to the present invention as disclosed herein. The elements employed to accomplish these operations and functions within the transmitting and receiving elements may be shared with other circuits, program instructions, etc., that are employed to perform other functions and/or operations within the transmitting and receiving elements. In one embodiment, the smart device 321 constructs a commissioning message that includes WLAN configuration data. The message is transmitted by the smart device 321 to the other device 307 via the transmitting elements and the message is received by the other device 307 via the receiving elements. In one embodiment, the WLAN configuration data comprises the name of the WLAN, security mode, and any required security passphrase. Other embodiments contemplate additional or different configuration data as is appropriate for commissioning the other device 307.

[0039] In operation, the other device 307 extracts the WLAN configuration data from the received configuration message and employs the configuration data in order to join the WLAN 304.

[0040] In one embodiment, the transmitting elements comprise an existing camera flash and the receiving elements comprise an optical sensor. Another embodiment contemplates utilization of a display backlight that transmits optical signals to an optical

sensor. A further embodiment comprehends the use of infrared transmission and receiving elements. Still another embodiment utilizes an acoustic speaker and microphone to transfer the configuration data via sound. Yet another embodiment utilizes BLUETOOTH® or substantially similar radio transmissions to transfer the configuration data. Further embodiments utilize near field communications (NFC) or mechanical vibration/accelerometer transmission.

[0041] Alternative embodiments of the transmitting elements may use disparate radio frequencies such as, but not limited to, 433 Megahertz (MHz), 868 MHz, 900 MHz, 2.4 Gigahertz (GHz), or 5.2 GHz. These embodiments may use radio modulation techniques such as, but not limited to, frequency shift keying (FSK), phase shift keying (PSK), on-off keying (OOK), and quadrature amplitude modulation (QAM). These embodiments may use radio frequency (RF) communication standards such as, but not limited to, near field communication (NFC), RF identification (ID), BLUETOOTH LOW ENERGY®, Zigbee®, radio frequency for consumer electronics (RF4CE®), Z-Wave®, or other proprietary standards.

[0042] Referring now to FIGURE 4, a block diagram is presented showing a smart wireless commissioning device 400 according to the present invention. The smart device 400 is configured to format and transmit WLAN configuration data to a corresponding device to be commissioned according to the present invention by utilizing an optical transmission path. The smart device 400 comprises a microcomputer 401 (e.g., microprocessor, central processing unit, processor, microcontroller, and etc.) that is coupled to commissioning logic 402. The microcomputer is also coupled to an existing touchscreen 404, a display 405, a wireless radio 406, and a camera flash 407. In one embodiment, the camera flash 407 is employed as a transmitter to convey configuration data to the device to be commissioned.

[0043] Operationally, the microcontroller 401 includes processing circuits that are employed to format and configure WLAN configuration packets which are optically transmitted by the camera flash 407 by modulating the flash 407 on and off to transmit

the packets according to any well known communication protocol or via a proprietary protocol. The commissioning logic 402 includes program instructions that direct the microcontroller 401 to format and transmit the WLAN configuration packets to the device to be commissioned. In one embodiment, the commissioning logic 402 comprises an existing memory element (e.g., random access memory (RAM), read-only memory (ROM), electrically programmable ROM (EPROM), flash memory) within the device 400. In this embodiment, the commissioning logic 402 may be external to the microcontroller 401 or internal to the microcontroller 401. An alternative embodiment comprehends stand-alone commissioning logic 402 (e.g., circuits and/or program instructions) that operates to transmit the commissioning packets independent from operation of other device functions provided for by the microcontroller 401.

[0044] The touchscreen 404 and display 405 are employed to initiate execution of the program instructions by the microcontroller via, in one embodiment, launching a commissioning application on the smart wireless device 400. Additionally, the display 405 may be employed to provide status and/or commissioned device information. The WLAN configuration data is optically transmitted by the flash 407 over an optical transmission patch 409 to the device to be commissioned. The wireless radio 406 may be employed via a WLAN 408 to communicate with a WLAN access point (not shown) or to the commissioned device following commissioning.

[0045] In lieu of using the camera flash 407, an alternative embodiment of the smartphone commissioning device 400 employs a backlight function of the display 405 as the transmitter portion of the transmitting element, where the backlight is modulated on and off as described above. Other embodiments for optically transmitting the commissioning message are contemplated such as intensity modulation (e.g., brightness) and/or modulation of the color of the backlight.

[0046] Operationally, the remaining elements of the smart wireless device 400 work according to control provided by the commissioning logic 402 (or the commissioning logic 401 in conjunction with the microcontroller 401) to cause the camera flash 407 to

transmit the commissioning packets to the device to be commissioned, thereby allowing it to join the WLAN 408. In one embodiment, after the commissioned device has joined the WLAN 408, the wireless radio 406 is employed to optionally receive commissioning confirmation data from and/or to transmit supplemental configuration data to the commissioned device via the WLAN connection 408.

[0047] As is appropriate for the chosen transmitting element and receiving element, a variety of well known communication protocols, error correcting codes, line coding, and/or modulation techniques may be used to send the messages from the transmitter to the receiver in a reliable manner according to the present invention.

[0048] Now turning to FIGURE 5, a block diagram is presented illustrating a commissioned device 500 according to the present invention. The commissioned device 500 may be commissioned onto a WLAN by the smart wireless device 400 of FIGURE 4. The commissioned device 500 comprises a microcontroller 501 that is coupled to commissioning logic 502. The microcontroller 501 is also coupled to an optical sensor 503 and to a wireless radio 504. In the embodiment shown, the optical sensor 503 is employed as a transducer to receive WLAN configuration data from a the wireless smart device 400 of FIGURE 4 over an optical transmission link 509.

[0049] Operationally, the microcontroller 501 includes processing circuits that are employed to decode and process WLAN configuration packets which are optically received by the optical sensor 503 over the transmission link 509. The commissioning logic 502 includes program instructions that direct the microcontroller 501 to decode and process the WLAN configuration packets. In one embodiment, the commissioning logic 502 comprises an existing memory element within the device 500. In this embodiment, the commissioning logic 502 may be external to the microcontroller 501 or internal to the microcontroller 501. An alternative embodiment comprehends stand-alone commissioning logic 502 (e.g., circuits and/or program instructions) that operates to receive the commissioning packets independent from operation of other device functions provided for by the microcontroller 501.

[0050] In one embodiment, after the commissioned device has joined the WLAN 508, the wireless radio 506 is employed to optionally transmit commissioning confirmation data to and/or to receive supplemental configuration data from the smart wireless device and to communicate with the access point and other devices on the WLAN connection 508 as required.

[0051] Referring to FIGURE 6, a block diagram is presented detailing features of an exemplary commissioning device 600 according to the present invention, such as the smart wireless device 400 of FIGURE 4. The device 600 includes WLAN configuration data 601 that is provided to a forward error correction (FEC) encoder 602. Encoded configuration data is generated by the encoder 602 and is provided to a line coding element 603. One embodiment contemplates a Manchester encoder 603. The line coding element 603 removes any direct current (DC) component from the configuration packets and allows transmission thereof to be self-clocking. Line coded configuration data is thus provided to a modulator 605. The modulator 605 is also coupled to a timebase 604. The modulator 605 combines the line coded data with timebase data to enables one or more corresponding optical messages to be serially transmitted. Modulated configuration data is thus provided by the modulator 605 to a flash 606, which transmits the WLAN configuration packets over an optical transmission patch 609. Elements 601-605 may be implemented by a combination of elements within the microcontroller 401 and commissioning logic 402 of FIGURE 4.

[0052] Now referring to FIGURE 7, a block diagram is presented showing details of an exemplary commissioned device 700 according to the present invention, such as the commissioned device 500 of FIGURE 5. The commissioned device 700 includes an optical sensor 701 that is employed as a transducer to receive WLAN configuration data packets which are transmitted over an optical channel 709 by a commissioning device according to the present invention. The received bit stream is provided by the sensor 701 to a demodulator 702 that is also coupled to a timebase 703. The demodulator 702 may employ accurate timebase data to sample the transmission at a higher rate than the

original timebase 604 used by the modulator 605 of FIGURE 6. The output of the demodulator 702 is then sent to clock recovery 704. The clock recovery utilizes the line coding added by the transmitter to discover the original timebase used by the modulator 605. The clock recovery 704 then discards any extra samples and removes the line coding. The output of clock recovery 704 is then sent to an FEC decoder 705 which corrects any errors found in the transmission and recovers one or more commissioning messages. The commissioning messages provide the WLAN configuration data 706, which is used by the product to join the WLAN. Elements 702-706 may be implemented by a combination of elements within the microcontroller 501 and commissioning logic 502 of FIGURE 5.

[0053] Referring now to FIGURE 8, a block diagram is presented illustrating an exemplary commissioning packet 800 according to the present invention. The packet 800 includes a preamble field 801, a header field 802, a service set identifier (SSID) field 803, a key field 804, and a cyclic redundancy check (CRC) field 805. Operationally, the preamble 801 may be a 16-bit stream of repeating zeros and ones that allow a receiver according to the present invention to asynchronously synchronize with a transmitter according to the present invention. The header 802 may comprise two bytes, the first of which may be employed as a start frame delimiter and the second of which identifies a message type. The SSID 803 identifies the wireless network service set, and the key field 804 may comprise the network key. The CRC 805 is the result of a 16-bit CRC over the SSID 803 and key 804 fields using the polynomial X^16 + X^12 + X^5 + 1.

[0054] Although the present invention and its objects, features, and advantages have been described in detail, other embodiments are encompassed by the invention as well. For example some embodiments may require that the device to be commissioned be placed into a commissioning mode to receive the commissioning messages. Other embodiments may accept the commissioning messages concurrent with other operations of the commissioned device.

[0055] Some embodiments may transmit the WLAN configuration data in a single commissioning message, while other embodiments employ multiple commissioning messages to communicate the configuration data.

[0056] Some embodiments of the present invention may transmit other information in addition to WLAN configuration data. In one such embodiment, the commissioning device sends its own Internet protocol (IP) address, proxy, and gateway configuration to the device to be commissioned. Once the device to be commissioned has successfully joined the WLAN, then the device proceeds to contact the commissioning device via the WLAN to indicate success and to optionally communicate additional configuration data as is described above.

[0057] In some embodiments, the commissioned device provides a visual or audio indication to the user about the status of the commissioning process. In one embodiment, the commissioned device may illuminate an indicator (e.g., light emitting diode (LED)) to indicate progress, success, or failure of the commissioning. In another embodiment, the commissioned device may use a speaker to provide an audio indication of the commissioning status.

[0058] One embodiment of the present invention includes a configuration mode where the commissioned device communicates back to the smart wireless device via optical or audio transmission. The smart wireless device may observe this communication with existing hardware, such as a built-in camera for reception of the optical transmission, or a microphone for reception of the audio transmission. This type of communication may be used to alert the smart wireless device (and operator) of success or failure conditions.

[0059] In other embodiments, the commissioning device may be informed of the WLAN configuration data in a variety of ways. In one embodiment, it may derive the WLAN configuration data from its own active connection to the WLAN. In another embodiment, WLAN configuration data may be entered by the user directly into the commissioning device via the touchscreen and/or keyboard. Another embodiment

contemplates automatic derivation of the WLAN configuration data by contact with a server or via some other record of the configuration data. Combinations of the above noted embodiments are also comprehended for determination of the configuration data by the commissioning device.

[0060] Further embodiments contemplate usage of desktop and laptop computers as commissioning devices, where their display screens, backlights, speakers, microphones, and the like are employed for visual communication of commissioning messages.

[0061] Advantageously, a commissioned device according to the present does not require its own user interface, but rather the commissioning device's existing display and/or touchscreen may be utilized to input commissioning data and to output commissioning results.

[0062] In addition, from an operator perspective, configuration data is sent from the commissioning device to the product device in a single step rather than a complex series of single data entry actions.

[0063] Furthermore, since a smart wireless device is employed as a commissioning device, it already possesses the ability to automatically discover WLAN configuration, thus simplifying user experience.

[0064] Portions of the present invention and corresponding detailed description are presented in terms of software, or algorithms and symbolic representations of operations on data bits within a computer memory. These descriptions and representations are the ones by which those of ordinary skill in the art effectively convey the substance of their work to others of ordinary skill in the art. An algorithm, as the term is used here, and as it is used generally, is conceived to be a self-consistent sequence of steps leading to a desired result. The steps are those requiring physical manipulations of physical quantities. Usually, though not necessarily, these quantities take the form of optical, electrical, or magnetic signals capable of being stored, transferred, combined, compared,

and otherwise manipulated. It has proven convenient at times, principally for reasons of common usage, to refer to these signals as bits, values, elements, symbols, characters, terms, numbers, or the like.

[0065] It should be borne in mind, however, that all of these and similar terms are to be associated with the appropriate physical quantities and are merely convenient labels applied to these quantities. Unless specifically stated otherwise, or as is apparent from the discussion, terms such as "processing" or "computing" or "calculating" or "determining" or "displaying" or the like, refer to the action and processes of a computer system, a microprocessor, a central processing unit, or similar electronic computing device, that manipulates and transforms data represented as physical, electronic quantities within the computer system's registers and memories into other data similarly represented as physical quantities within the computer system memories or registers or other such information storage, transmission or display devices.

[0066] Note also that the software implemented aspects of the invention are typically encoded on some form of program storage medium or implemented over some type of transmission medium. The program storage medium may be electronic (e.g., read only memory, flash read only memory, electrically programmable read only memory), random access memory magnetic (e.g., a floppy disk or a hard drive) or optical (e.g., a compact disk read only memory, or "CD ROM"), and may be read only or random access. Similarly, the transmission medium may be metal traces, twisted wire pairs, coaxial cable, optical fiber, or some other suitable transmission medium known to the art. The invention is not limited by these aspects of any given implementation.

[0067] The particular embodiments disclosed above are illustrative only, and those skilled in the art will appreciate that they can readily use the disclosed conception and specific embodiments as a basis for designing or modifying other structures for carrying out the same purposes of the present invention, and that various changes, substitutions and alterations can be made herein without departing from the scope of the invention as set forth by the appended claims.

[0068] What is claimed is:

CLAIMS

1. An apparatus for commissioning a target device onto a wireless local area network (WLAN), comprising:

a smart wireless device, comprising:

commissioning logic, configured to format and direct transmission of one or more WLAN configuration packets that convey WLAN configuration data; and

a transducer, coupled to said commissioning logic, configured to transmit said one or more WLAN configuration packets over said transmission path to the target device, wherein said transducer is an existing component of said smart wireless device.

2. The apparatus as recited in claim 1, wherein said smart wireless device comprises a smartphone.

3. The apparatus as recited in claim 1, wherein said smart wireless device comprises a tablet computer.

4. The apparatus as recited in claim 1, wherein said commissioning logic comprises a sequence of program instructions in a application directed towards commissioning the target device onto the WLAN.

5. The apparatus as recited in claim 1, wherein said transducer comprises a camera flash, and wherein said transmission path comprises an optical transmission path, and wherein said camera flash is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to an optical sensor on the target device.

6. The apparatus as recited in claim 1, wherein said transducer comprises a backlit display, and wherein said transmission path comprises an optical transmission path, and wherein said backlit display is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to an optical sensor on the target device.

7. The apparatus as recited in claim 1, wherein said transducer comprises an audio speaker, and wherein said transmission path comprises an audio transmission path, and wherein said audio speaker is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said audio transmission path to an audio sensor on the target device.

8. An apparatus for wireless local area network (WLAN) device commissioning, comprising:

a smart wireless device, comprising:

first commissioning logic, configured to format and direct transmission of one or more WLAN configuration packets; and

a first transducer, coupled to said first commissioning logic, configured to transmit said one or more WLAN configuration packets over said transmission path, wherein said first transducer is an existing component of said smart wireless device; and

a target device, comprising:

a second transducer, configured to receive said one or more WLAN configuration packets;

second commissioning logic, coupled to said second transducer, configured to decode and process said one or more WLAN configuration packets to recover WLAN configuration data; and

a wireless radio, operatively coupled to said commissioning logic, configured to employ said WLAN configuration data to enable said target device to join a WLAN.

9. The apparatus as recited in claim 8, wherein said smart wireless device comprises a smartphone.

10. The apparatus as recited in claim 8, wherein said smart wireless device comprises a tablet computer.

11. The apparatus as recited in claim 8, wherein said first and second commissioning logics comprise a sequence of program instructions in one or more applications directed towards commissioning said target device onto said WLAN.

12. The apparatus as recited in claim 8, wherein said first transducer comprises a camera flash, and wherein said second transducer comprises an optical sensor, and wherein said transmission path comprises an optical transmission path, and wherein said camera flash is modulated according to said first commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to said optical sensor.

13. The apparatus as recited in claim 8, wherein said first transducer comprises a backlit display, and wherein said second transducer comprises an optical sensor, and wherein said transmission path comprises an optical transmission path, and wherein said backlit display is modulated according to said first commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to said optical sensor.

14. The apparatus as recited in claim 8, wherein said first transducer comprises an audio speaker, and wherein said second transducer comprises an audio sensor, and wherein said transmission path comprises an audio transmission path, and wherein said audio speaker is modulated according to said first commissioning logic to transmit said one or more WLAN configuration packets over said audio transmission path to said audio sensor.

15. A method for wireless local area network (WLAN) device commissioning, comprising:

executing a first application on a smart wireless device to format and direct transmission of one or more WLAN packets;

via a first transducer of the smart wireless device, transmitting the one or more WLAN configuration packets over a transmission path, wherein the first transducer is an existing component of the smart wireless device;

via a second transducer disposed within a target device, receiving the one or more WLAN configuration packets;

executing a second application on the target device to decode and process the one or more WLAN configuration packets to recover WLAN configuration data; and

via a wireless radio disposed within the target device, employing the WLAN configuration data to enable the target device to join a WLAN.

16. The method as recited in claim 15, wherein the smart wireless device comprises a smartphone.

17. The method as recited in claim 15, wherein the smart wireless device comprises a tablet computer.

18. The method as recited in claim 15, wherein the first and second applications comprise first and second sequences of program instructions directed towards commissioning the target device onto the WLAN.

19. The method as recited in claim 15, wherein the first transducer comprises a camera flash, and wherein the second transducer comprises an optical sensor, and wherein the transmission path comprises an optical transmission path, and wherein the camera flash is modulated according to the first application to transmit the one or more WLAN configuration packets over the optical transmission path to the optical sensor.

20. The method as recited in claim 15, wherein the first transducer comprises a backlit display, and wherein the second transducer comprises an optical sensor, and wherein the transmission path comprises an optical transmission path, and wherein the backlit display is modulated according to the first application to transmit the one or more WLAN configuration packets over the optical transmission path to the optical sensor.

21. The method as recited in claim 15, wherein the first transducer comprises an audio speaker, and wherein the second transducer comprises an audio sensor, and wherein the transmission path comprises an audio transmission path, and wherein the audio speaker is modulated according to the first application to transmit the one or more WLAN configuration packets over the audio transmission path to the audio sensor.

ABSTRACT OF THE DISCLOSURE

An apparatus is provided for commissioning a target device onto a wireless local area network (WLAN). The apparatus includes a smart wireless device. The smart wireless device has commissioning logic and a transducer. The commissioning logic is configured to format and direct transmission of one or more WLAN configuration packets that convey WLAN configuration data. The transducer is coupled to the commissioning logic, and is configured to transmit the one or more WLAN configuration packets over the transmission path to the target device, wherein the transducer is an existing component of the smart wireless device.

FIG. 1 (Prior Art)

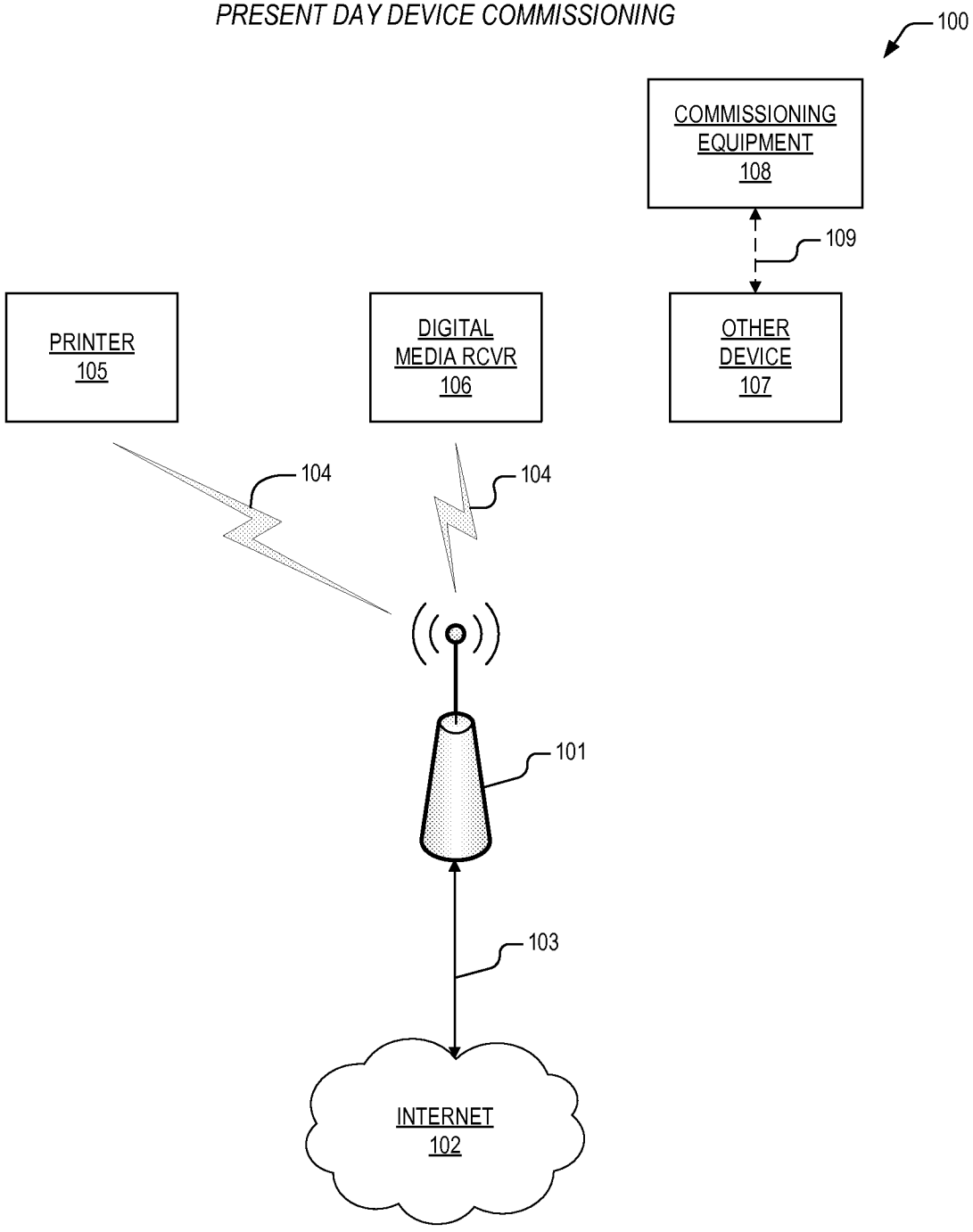


FIG. 2 (Prior Art)

PRESENT DAY DEVICE COMMISSIONING MECHANISMS

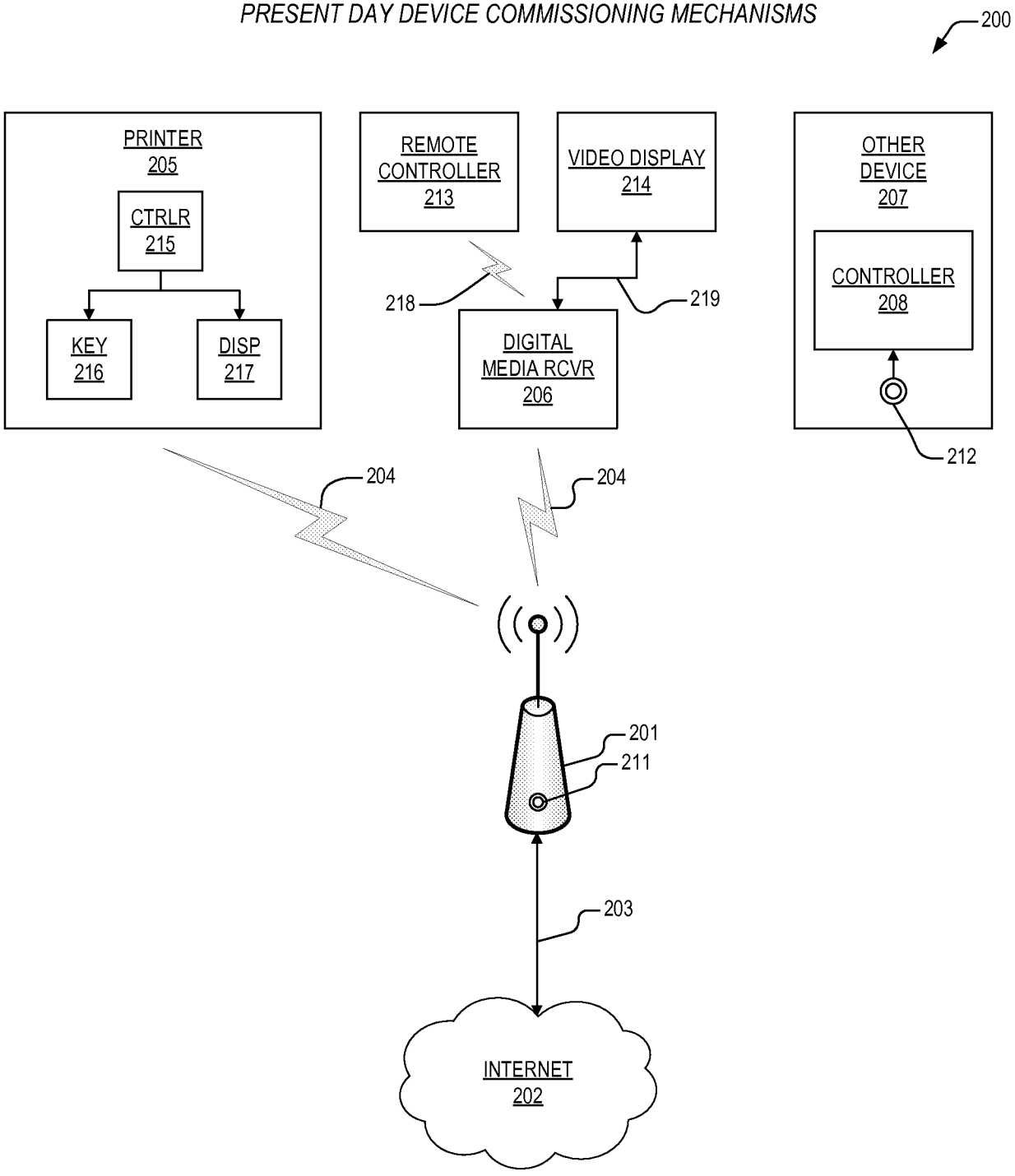


FIG. 3

EXEMPLARY SEAMLESS DEVICE COMMISSIONING TECHNIQUE

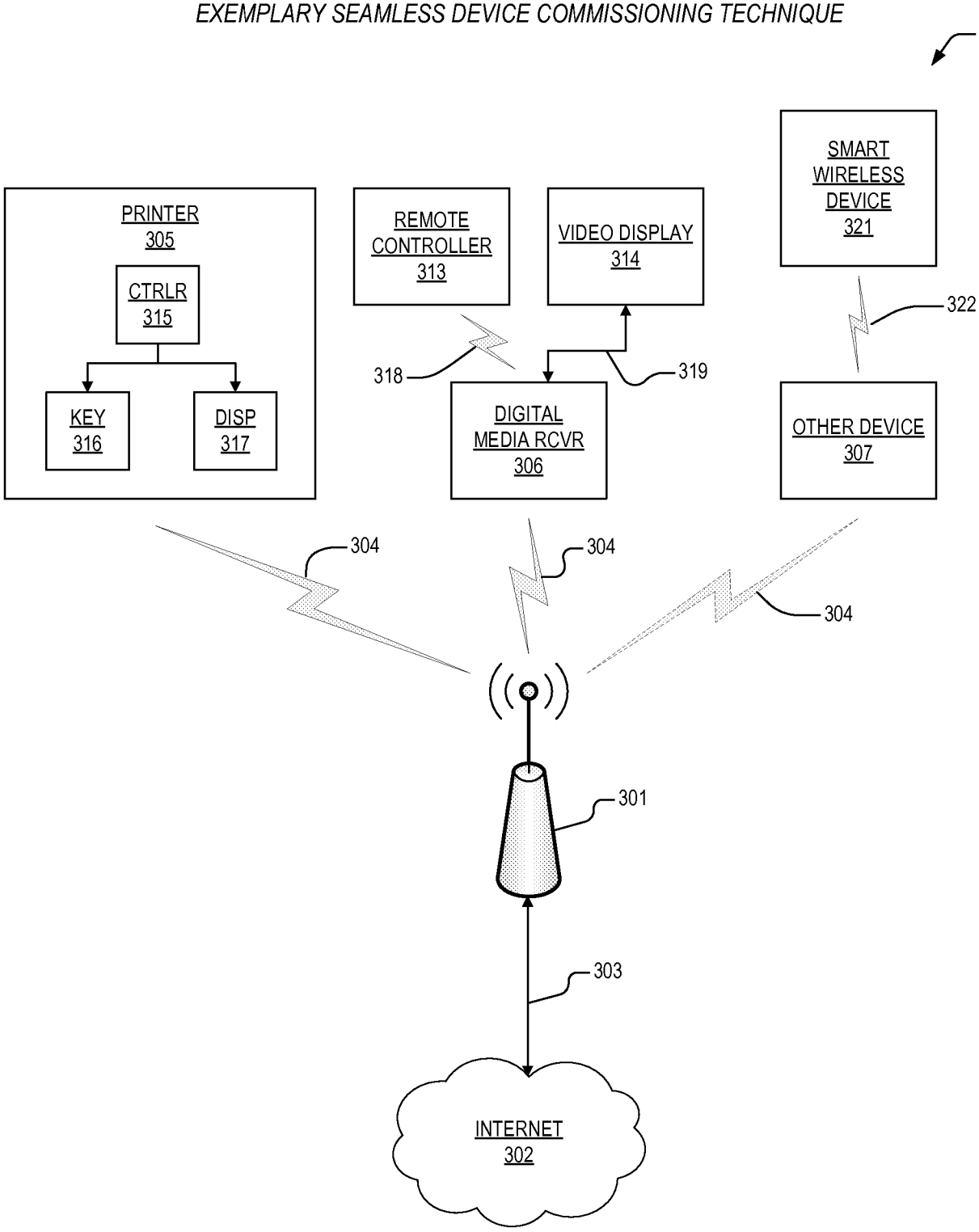


FIG. 4

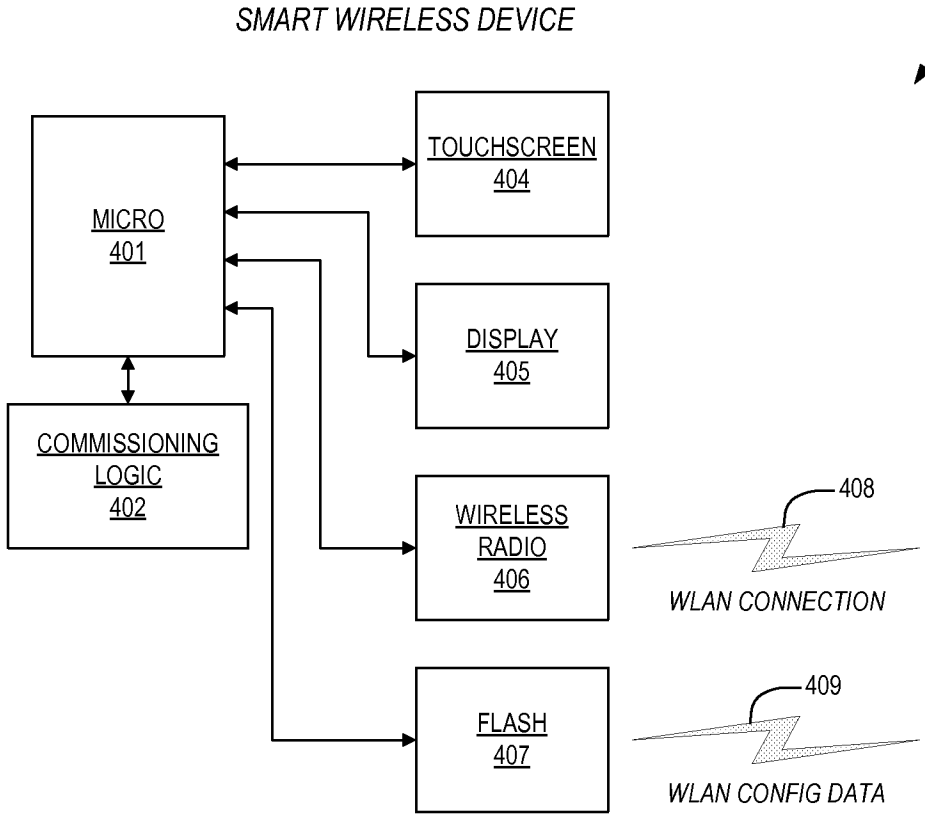

SMART WIRELESS DEVICE
400
MICRO
401
TOUCHSCREEN
404
DISPLAY
405
COMMISSIONING
LOGIC
402
WIRELESS
RADIO
406
408
WLAN CONNECTION
FLASH
407
409
WLAN CONFIG DATA

FIG. 5

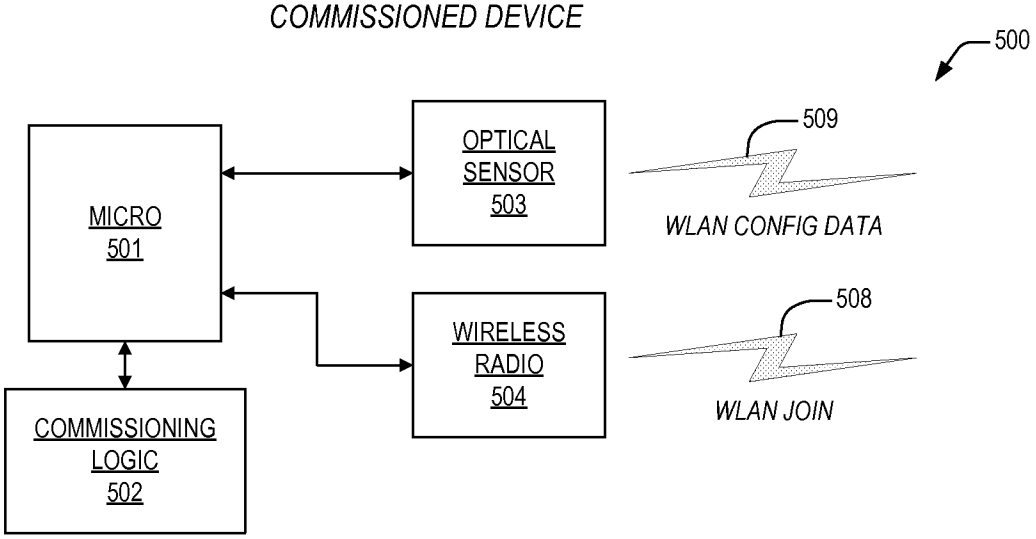

COMMISSIONED DEVICE
500
MICRO
501
OPTICAL
SENSOR
503
509
WLAN CONFIG DATA
WIRELESS
RADIO
504
508
WLAN JOIN
COMMISSIONING
LOGIC
502

FIG. 6

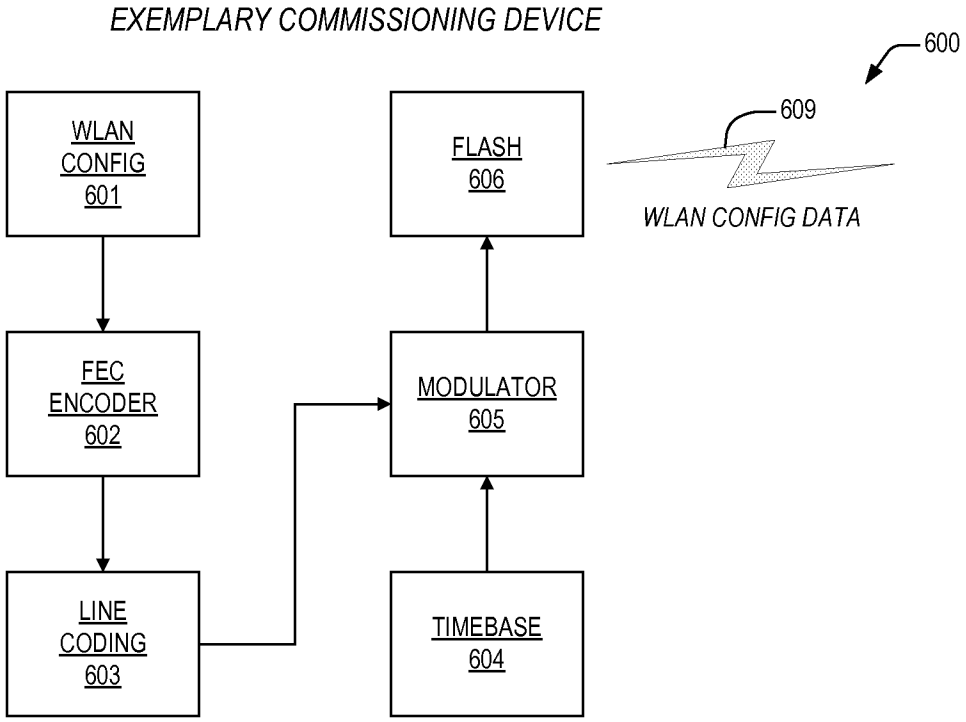

EXEMPLARY COMMISSIONING DEVICE
600
WLAN CONFIG 601
FLASH 606
609
WLAN CONFIG DATA
FEC ENCODER 602
MODULATOR 605
LINE CODING 603
TIMEBASE 604

FIG. 7

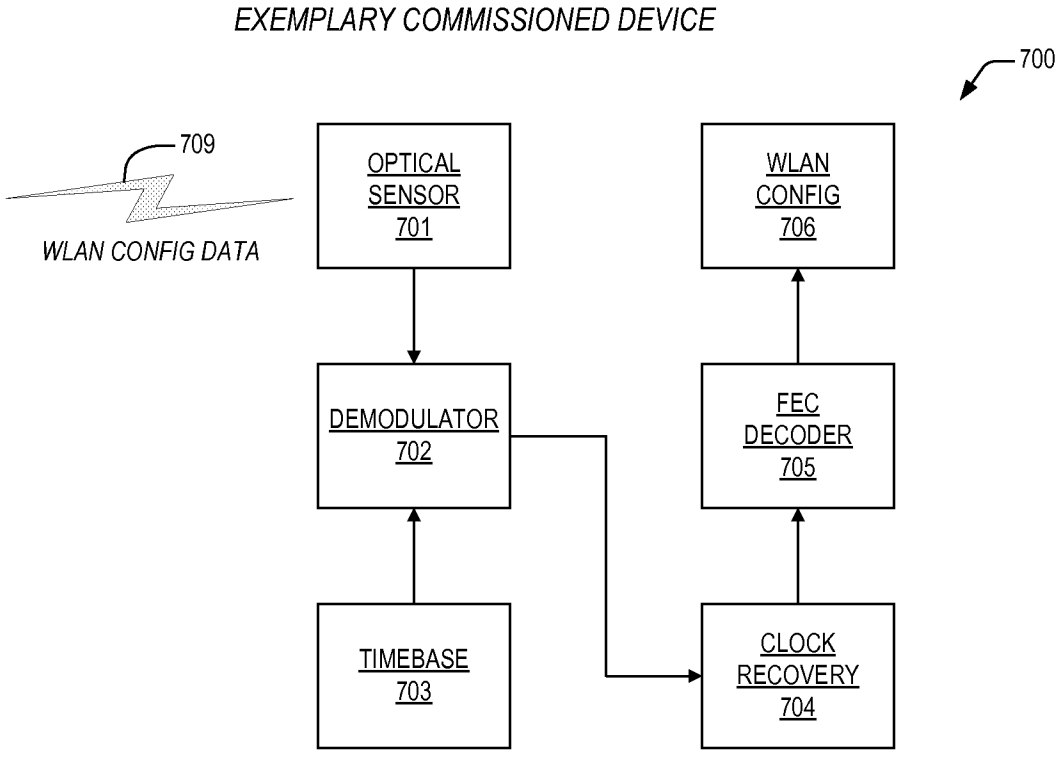
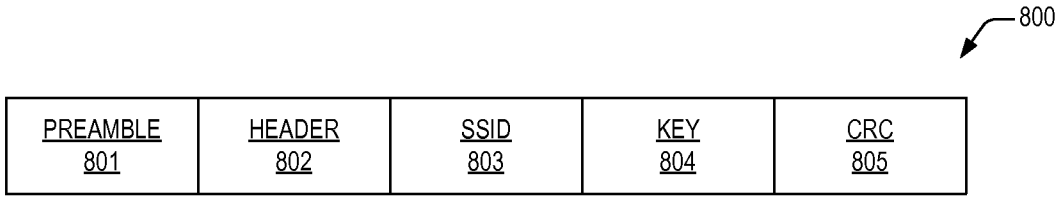

EXEMPLARY COMMISSIONED DEVICE
700
709
WLAN CONFIG DATA
OPTICAL SENSOR 701
WLAN CONFIG 706
DEMODULATOR 702
FEC DECODER 705
TIMEBASE 703
CLOCK RECOVERY 704

FIG. 8

EXEMPLARY COMMISSIONED DEVICE



Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Filer:	James Weldon Huffman/Taysie Locke
Attorney Docket Number:	MBPG.0101

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	98	98
Utility Search Fee	2111	1	310	310
Utility Examination Fee	2311	1	125	125
Pages:				
Claims:				
Claims in excess of 20	2202	1	31	31
Miscellaneous-Filing:				
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**564**

Electronic Acknowledgement Receipt

EFS ID:	15263754
Application Number:	13839828
International Application Number:	
Confirmation Number:	7021
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Customer Number:	23669
Filer:	James Weldon Huffman/Taysie Locke
Filer Authorized By:	James Weldon Huffman
Attorney Docket Number:	MBPG.0101
Receipt Date:	15-MAR-2013
Filing Date:	
Time Stamp:	17:41:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$564
RAM confirmation Number	14676
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Oath or Declaration filed	MBPG-0101_DecAssignment.pdf	767714 2aefb5d69128bd0e578e99400d695a49b0ee1ef2	no	2
Warnings:					
Information:					
2	Application Data Sheet	MBPG-0101_NonProvADS.pdf	1503675 b6d6e506d71af1ff9636f29a5a699375a0205061	no	6
Warnings:					
Information:					
3		MBPG-0101_NonProvApp.pdf	437989 f76ef7d9011a2e94aa6ffdf839b2f9fe58b9b558	yes	35

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	23
Claims	24	28
Abstract	29	29
Drawings-only black and white line drawings	30	35

Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	36815 70f2c1336963e19fbabc5989177c27f02aa5a0e8	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2746193		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jeffrey P. Mathews	03/05/2013
Lee R. Taylor	03/05/2013

RECEIVING PARTY DATA

Name:	MOBIPLUG NETWORKS INC.
Street Address:	2060 Broadway St., Suite 380
City:	Boulder
State/Country:	COLORADO
Postal Code:	80302

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13839828

OP $40.00 13839828

CORRESPONDENCE DATA

Fax Number: 7196230141
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 719-475-7103
Email: PTOHLG@me.com
Correspondent Name: HUFFMAN LAW GROUP, P.C.
Address Line 1: 7702 Barnes Rd., Ste. 140-46
Address Line 4: COLORADO SPRINGS, COLORADO 80922

ATTORNEY DOCKET NUMBER:	MBPG.0101
NAME OF SUBMITTER:	Taysie J. Locke
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2
source=MBPG-0101_DecAssignment#page1.tif
source=MBPG-0101_DecAssignment#page2.tif

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

TITLE OF INVENTION	APPARATUS AND METHOD FOR SEAMLESS COMMISIONING OF WIRELESS DEVICES

This is a combined declaration and assignment by the inventor(s) named below to the assignee named below.

I. Declaration and Related Statements

As a below named inventor, I hereby declare that:

This declaration is directed to:

The attached application; or

United States application or PCT International application number _____

filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

II. Assignment

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on even date herewith;

AND WHEREAS, **MOBIPLUG NETWORKS INC.** together with any successors, legal representatives, or assigns thereof, with its principal office at 2060 Broadway St., Suite 380, Boulder, CO 80302, wants to acquire the entire right, title and interest in and to the said invention(s), and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to the said **MOBIPLUG NETWORKS INC.**, its successors and assigns, the entire right, title and interest in and to the said invention and in and to the said application and all patents which may be granted thereon, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I/we hereby authorize and request the Commissioner of Patents, and any officials of foreign countries whose duty it is to issue patents on applications, to issue all patents for said invention, or patents resulting therefrom, insofar as my interest in concerned, to the said **MOBIPLUG NETWORKS INC.** as assignee of my entire right, title and interest;

I ALSO HEREBY sell and assign to **MOBIPLUG NETWORKS INC.**, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights;

Sonos Ex 1014, p. 50
Sonos v. Google, IPR2023-00806

AND I HEREBY covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

AND I HEREBY further covenant that I will communicate to said **MOBIPLUG NETWORKS INC.**, or to its successors, assigns and legal representatives, any facts known to me respecting said invention, and at the expense of said **MOBIPLUG NETWORKS INC.**, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said **MOBIPLUG NETWORKS INC.**, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

III. Signatures

A. Inventors

Signature: *Jeffrey P. Mathews*	**Date:** 3/5/13
Signature: *Lee R. Taylor*	**Date:** 3/5/13

SCORE Placeholder Sheet for IFW Content

Application Number: 13839828 Document Date: 03/15/2013

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

- Drawings – Other than Black and White Line Drawings

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

To access the documents in the SCORE database, refer to instructions developed by SIRA.

At the time of document entry (noted above):

- Examiners may access SCORE content via the eDAN interface.
- Other USPTO employees can bookmark the current SCORE URL (http://es/ScoreAccessWeb/).
- External customers may access SCORE content via the Public and Private PAIR interfaces.

Form Revision Date: February 8, 2006

				Complete if Known	
				Application Number	13839828
				Filing Date	03/15/2013
				First Named Inventor	Jeffrey P. Mathews
				Group Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	MBPG.0101

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		20130026947	01-31-2013	Economy et al.	
		8228198	07-24-2012	Clarke Mcallister	
		20100283584	11-11-2010	Clarke Mcallister	
		8265674	09-11-2012	Choong et al.	
		7953327	05-31-2011	Pereira et al.	
		20110172844	07-14-2011	Choong et al.	
		7830258	11-09-2010	Clarke W. Mcallister	
		8049434	11-01-2011	Crouse et al.	
		20120082062	04-05-2012	James Joseph Anthony Mccormack	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] - Number[4] - Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.
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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	15292777
Application Number:	13839828
International Application Number:	
Confirmation Number:	7021
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Customer Number:	23669
Filer:	James Weldon Huffman/Taysie Locke
Filer Authorized By:	James Weldon Huffman
Attorney Docket Number:	MBPG.0101
Receipt Date:	18-MAR-2013
Filing Date:	
Time Stamp:	22:06:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	MBPG-0101_IDS_Letter.pdf	46709 b2865e6373e14209236a234328bb5a687e356ade	no	1

Warnings:	
Information:	

2	Information Disclosure Statement (IDS) Form (SB08)	MBPG-0101_IDS.pdf	113714 655f8682bab7f9943b5398124ed2bf940cbbc971	no	1

Warnings:	
Information:	
This is not an USPTO supplied IDS fillable form	
Total Files Size (in bytes):	160423

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	13839828	**Docket Number**	MBPG.0101
Filed	03/15/2013	**Group Art Unit**	
Examiner		**Customer No.**	23669
Application Title	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES		
First Named Inventor	JEFFREY P. MATHEWS		

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Attached hereto is Form PTO-1449 listing documents believed relevant to the subject application. It is respectfully requested that the examiner review the information disclosed herein in detail, independently evaluate each item carefully in the consideration of the pending claims, and return an initialed copy of each form to the undersigned practitioner.

This disclosure statement should not be construed as a representation that a search has been made, that no other material information as defined in 37 CFR 1.56(a) exists, or as an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 CFR 1.56(b) or is available as a reference under 35 U.S.C. §102 *et seq.* Applicant reserves the right to swear behind or otherwise disprove the alleged "prior" nature of any art cited should the facts support and the situation warrant such an action.

It is believed that this disclosure complies with the requirements of 37 CFR 1.56, 1.97, and 1.98, and the Manual of Patent Examining Procedures §609. If for some reason the examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

Some of the enclosed documents may have markings thereon. No significance is intended to be attached to the markings.

Respectfully submitted,
HUFFMAN PATENT GROUP, LLC

/Richard K. Huffman/

By: _____

RICHARD K. HUFFMAN, P.E.
Registration No. 41,082
Tel: (719) 330-2808

03/15/2013

Date: _____

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☑ Practitioners associated with Customer Number: **23669**

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO), in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

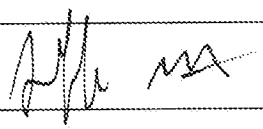
☑ The address associated with Customer Number: **23669**

Assignee Name and Address:

MOBIPLUG NETWORKS INC.
2060 Broadway St., Suite 380
Boulder, CO 80302

A copy of this form, together with a statement under 37 CFR 3.73(c) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form and must identify the application in which the Power of Attorney is to be filed.

SIGNATURE of Assignee of Record
The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature		Date	3/5/13
Name	Jeff Mathews	Telephone	303 5961455
Title	CTO		

STATEMENT UNDER 37 CFR 3.73(c) ATTACHED TO POWER OF ATTORNEY BY APPLICANT ASSIGNEE

Applicant	MOBIPLUG NETWORKS INC.		
Application No./Patent No.:	13839828	Filed/Issue Date:	03/15/2013
Titled:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES		

MOBIPLUG NETWORKS INC., a corporation states that for the patent application/patent identified above, it is:

☒ the assignee of the entire right, title, and interest.

The interest identified above is evidenced by either (choose **one** of options A or B below):

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel __030020___, Frame __0015____, or for which a copy therefore is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

   ☐ Additional documents in the chain of title are listed on a supplemental sheet (s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned is authorized to act on behalf of the assignee.

Signature: /Richard K. Huffman/	Date: 03/19/2013
Printed or Typed Name: Richard K. Huffman	Title or Registration Number: 41082

Electronic Acknowledgement Receipt

EFS ID:	15294714
Application Number:	13839828
International Application Number:	
Confirmation Number:	7021
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Customer Number:	23669
Filer:	James Weldon Huffman/Taysie Locke
Filer Authorized By:	James Weldon Huffman
Attorney Docket Number:	MBPG.0101
Receipt Date:	19-MAR-2013
Filing Date:	
Time Stamp:	11:15:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	MBPG_PowerofAttorney.pdf	497195 415a25cda6b4161b4ef87eef5f3cced5b4b8b0cb	no	1

Warnings:	
Information:	

2	Assignee showing of ownership per 37 CFR 3.73.	MBPG-0101_StatementOwnership.pdf	45058 d155fd2bb1ce3c8a23e143ff8300189b4793f70f	no	1

Warnings:	
Information:	
Total Files Size (in bytes):	542253

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/839,828	03/15/2013	Jeffrey P. Mathews	MBPG.0101

CONFIRMATION NO. 7021

23669
HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922

POA ACCEPTANCE LETTER

OC000000060776165

Date Mailed: 05/02/2013

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/19/2013.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/tlpham/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Sonos Ex 1014, p. 61
Sonos v. Google, IPR2023-00806

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
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/839,828	03/15/2013	2642	564	MBPG.0101	21	3

CONFIRMATION NO. 7021

23669
HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922

FILING RECEIPT

OC000000060774093

Date Mailed: 05/02/2013

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Jeffrey P. Mathews, Longmont, CO;
Lee R. Taylor, Boulder, CO;

Applicant(s)

MOBIPLUG NETWORKS INC., Boulder, CO

Assignment For Published Patent Application

MOBIPLUG NETWORKS INC., Boulder, CO

Power of Attorney: The patent practitioners associated with Customer Number 23669

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/622,620 04/11/2012

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

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 04/26/2013
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/839,828**
Projected Publication Date: 10/17/2013
Non-Publication Request: No

Sonos Ex 1014, p. 62
Sonos v. Google, IPR2023-00806

Early Publication Request: No
** **SMALL ENTITY** **
Title

APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

Preliminary Class

455

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Sonos v. Google, IPR2023-00806

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 13/839,828

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	21 minus 20 =	* 1	x 40 =	40	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*	x 210 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	770		TOTAL	

APPLICATION AS AMENDED - PART II

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

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

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

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☑ Practitioners associated with Customer Number: **23669**

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO), in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☑ The address associated with Customer Number: **23669**

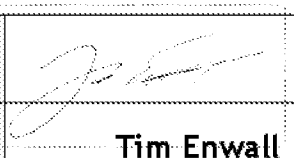
Assignee Name and Address:

Revolv Inc.
2060 Broadway St., Suite 380
Boulder, CO 80302

A copy of this form, together with a statement under 37 CFR 3.73(c) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form and must identify the application in which the Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature		Date	May 6, 2013
Name	**Tim Enwall**	Telephone	+1.303.931.3602
Title	President/CEO		

STATEMENT UNDER 37 CFR 3.73(c) ATTACHED TO POWER OF ATTORNEY BY APPLICANT ASSIGNEE

Applicant	REVOLV INC.		
Application No./Patent No.:	13839828	Filed/Issue Date:	03/15/2013
Titled:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES		

REVOLV INC., a corporation states that for the patent application/patent identified above, it is:

☒ the assignee of the entire right, title, and interest.

The interest identified above is evidenced by either (choose **one** of options A or B below):

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel ___030364_____, Frame _0158__, or for which a copy therefore is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

   ☐ Additional documents in the chain of title are listed on a supplemental sheet (s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned is authorized to act on behalf of the assignee.

Signature: /Richard K. Huffman/	Date: 05/06/2013
Printed or Typed Name: Richard K. Huffman	Title or Registration Number: 41082

Electronic Acknowledgement Receipt

EFS ID:	15727726
Application Number:	13839828
International Application Number:	
Confirmation Number:	7021
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Customer Number:	23669
Filer:	James Weldon Huffman/Taysie Locke
Filer Authorized By:	James Weldon Huffman
Attorney Docket Number:	RVLV.0101
Receipt Date:	08-MAY-2013
Filing Date:	15-MAR-2013
Time Stamp:	17:42:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	Revolv_GeneralPOA.pdf	162169 0895073366c469e0870119ad46505c347f0b0a60	no	1

Warnings:	
Information:	

2	Assignee showing of ownership per 37 CFR 3.73.	RVLV-0101_StatementofOwnership.pdf	43810 92b2cc1f67c80cd45f2e292f3e34a593b1e07ab6	no	1

Warnings:	
Information:	
Total Files Size (in bytes):	205979

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/839,828	03/15/2013	Jeffrey P. Mathews	RVLV.0101

CONFIRMATION NO. 7021

IMPROPER CPOA LETTER

23669
HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922

Date Mailed: 05/16/2013

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 05/08/2013. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney has not been accepted because the party who is giving power of attorney has not been identified. power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A patent owner who was not the applicant must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

/ttkim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Sonos Ex 1014, p. 70
Sonos v. Google, IPR2023-00806

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☑ Practitioners associated with Customer Number: **23669**

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO), in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☑ The address associated with Customer Number: **23669**

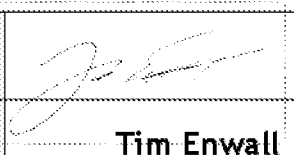
Assignee Name and Address:

Revolv Inc.
2060 Broadway St., Suite 380
Boulder, CO 80302

A copy of this form, together with a statement under 37 CFR 3.73(c) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form and must identify the application in which the Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature		Date	May 6, 2013
Name	**Tim Enwall**	Telephone	+1.303.931.3602
Title	President/CEO		

STATEMENT UNDER 37 CFR 3.73(c) ATTACHED TO POWER OF ATTORNEY BY APPLICANT ASSIGNEE

Applicant	REVOLV INC.		
Application No./Patent No.:	13839828	Filed/Issue Date:	03/15/2013
Titled:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES		

REVOLV INC., a corporation states that for the patent application/patent identified above, it is:

☒ the assignee of the entire right, title, and interest.

The interest identified above is evidenced by either (choose **one** of options A or B below):

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel ___030364_____, Frame _0158__, or for which a copy therefore is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

   ☐ Additional documents in the chain of title are listed on a supplemental sheet (s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned is authorized to act on behalf of the assignee.

Signature	Date
/Richard K. Huffman/	05/06/2013
Printed or Typed Name	**Title or Registration Number**
Richard K. Huffman	41082

Electronic Acknowledgement Receipt

EFS ID:	15894566
Application Number:	13839828
International Application Number:	
Confirmation Number:	7021
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Customer Number:	23669
Filer:	James Weldon Huffman/Taysie Locke
Filer Authorized By:	James Weldon Huffman
Attorney Docket Number:	RVLV.0101
Receipt Date:	29-MAY-2013
Filing Date:	15-MAR-2013
Time Stamp:	14:12:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	RVLV-0101_SupplementalADS_.pdf	101221 123173b85ac486c7c437634485638a11260987b8	no	6

Warnings:	
Information:	

This is not an USPTO supplied ADS fillable form					
2	Power of Attorney	RVLV-0101_POA.pdf	167144 c50f53858b4d26e91fbafc49223570ac54703282	no	1
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73.	RVLV-0101_Statement.pdf	47195 fdea570efc690fa0fc7e7030d73e6f334d4f0393	no	1
Warnings:					
Information:					
		Total Files Size (in bytes):	315560		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

To show updated Assignee information

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RVLV.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jeffrey	P.	Mathews	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Longmont	State/Province	CO	Country of Residence	US

Mailing Address of Inventor:

Address 1	3900 Fowler Ln		
Address 2			
City	Longmont	State/Province	CO
Postal Code	80503	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Lee	R.	Taylor	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Boulder	State/Province	CO	Country of Residence	US

Mailing Address of Inventor:

Address 1	4632 Starboard Dr.		
Address 2			
City	Boulder	State/Province	CO
Postal Code	80301	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

Sonos Ex 1014, p. 75
Sonos v. Google, IPR2023-00806

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RVLV.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

☐ An Address is being provided for the correspondence Information of this application.			
Customer Number	23669		
Email Address	ptohlg@me.com	Add Email	Remove Email

Application Information:

Title of the Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES		
Attorney Docket Number	RVLV.0101	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	6	**Suggested Figure for Publication (if any)**	3

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	23669		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61622620	2012-04-11

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RVLV.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

Sonos Ex 1014, p. 77
Sonos v. Google, IPR2023-00806

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RVLV.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	Revolv Inc.		
Mailing Address Information For Applicant:			
Address 1	2060 Broadway St., Suite 380		
Address 2			
City	Boulder	**State/Province**	CO
Country	US	Postal Code	80302
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RVLV.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

If the Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Non-Applicant Assignee:

Address 1	
Address 2	

City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the Add button.

Signature:

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

Signature	/Richard K. Huffman/			Date (YYYY-MM-DD)	2013-05-29
First Name	Richard	Last Name	Huffman	Registration Number	41082

Additional Signature may be generated within this form by selecting the Add button.

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

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

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

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

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/839,828	03/15/2013	Jeffrey P. Mathews	RVLV.0101

CONFIRMATION NO. 7021

IMPROPER CPOA LETTER

23669
HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922

OC000000061658595

Date Mailed: 06/06/2013

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 05/29/2013. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney has not been accepted because the party who is giving power of attorney has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A patent owner who was not the applicant must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

/ttkim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Sonos Ex 1014, p. 81
Sonos v. Google, IPR2023-00806

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/839,828	03/15/2013	Jeffrey P. Mathews	RVLV.0101

CONFIRMATION NO. 7021

23669
HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922

IMPROPER CFR REQUEST

OC000000061658635

Date Mailed: 06/06/2013

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

/ttkim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☑ Practitioners associated with Customer Number: **23669**

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO), in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☑ The address associated with Customer Number: **23669**

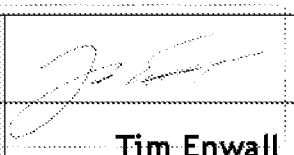
Assignee Name and Address:

Revolv Inc.
2060 Broadway St., Suite 380
Boulder, CO 80302

A copy of this form, together with a statement under 37 CFR 3.73(c) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form and must identify the application in which the Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature		Date	May 6, 2013
Name	**Tim Enwall**	Telephone	+1.303.931.3602
Title	President/CEO		

STATEMENT UNDER 37 CFR 3.73(c) ATTACHED TO POWER OF ATTORNEY BY APPLICANT ASSIGNEE

Applicant	REVOLV INC.		
Application No./Patent No.:	13839828	Filed/Issue Date:	03/15/2013
Titled:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES		

REVOLV INC., a corporation states that for the patent application/patent identified above, it is:

☒ the assignee of the entire right, title, and interest.

The interest identified above is evidenced by either (choose **one** of options A or B below):

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel ___030364_____, Frame _0158__, or for which a copy therefore is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

   ☐ Additional documents in the chain of title are listed on a supplemental sheet (s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned is authorized to act on behalf of the assignee.

Signature	Date
/Richard K. Huffman/	05/06/2013
Printed or Typed Name	**Title or Registration Number**
Richard K. Huffman	41082

Electronic Acknowledgement Receipt

EFS ID:	16076863
Application Number:	13839828
International Application Number:	
Confirmation Number:	7021
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Customer Number:	23669
Filer:	James Weldon Huffman/Taysie Locke
Filer Authorized By:	James Weldon Huffman
Attorney Docket Number:	RVLV.0101
Receipt Date:	18-JUN-2013
Filing Date:	15-MAR-2013
Time Stamp:	18:35:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	RVLV-0101_NonProvADS_.pdf	126499 aa5d8a7c48a23b415c228214afc6ef497f96535d	no	6

Warnings:	
Information:	

This is not an USPTO supplied ADS fillable form					
2	Request for Corrected Filing Receipt	RVLV-0101_RequesttoUpdate.pdf	43518 371493dc0ab0f21f68f49de1d2c94764cdaffe4e	no	1
Warnings:					
Information:					
3		RVLV-0101_POAandStatement.pdf	204468 5be973f13cc5298184ea4295d665929f698f8e7c	yes	2

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Power of Attorney	1	1
	Assignee showing of ownership per 37 CFR 3.73.	2	2

Warnings:	
Information:	
Total Files Size (in bytes):	374485

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~MBPG.0101~~ RVLV.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jeffrey	P.	Mathews	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Longmont	State/Province	CO	Country of Residence	US

Mailing Address of Inventor:

Address 1	3900 Fowler Ln		
Address 2			
City	Longmont	State/Province	CO
Postal Code	80503	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Lee	R.	Taylor	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Boulder	State/Province	CO	Country of Residence	US

Mailing Address of Inventor:

Address 1	4632 Starboard Dr.		
Address 2			
City	Boulder	State/Province	CO
Postal Code	80301	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

Sonos Ex 1014, p. 87
Sonos v. Google, IPR2023-00806

PTO/AIA/14 (03-13)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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	Application Number	
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Customer Number	23669		
Email Address	ptohlg@me.com	Add Email	Remove Email

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Title of the Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES		
Attorney Docket Number	~~MBPG.0101~~ RVLV.0101	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	6	**Suggested Figure for Publication (if any)**	3

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

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Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	23669		

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Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61622620	2012-04-11

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~MBPG.0101~~ RVLV.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

Sonos Ex 1014, p. 89
Sonos v. Google, IPR2023-00806

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~MBPG.0101~~ RVLV.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	~~Mobiplug Networks Inc.~~ REVOLV INC.

Mailing Address Information For Applicant:

Address 1	2060 Broadway St., Suite 380		
Address 2			
City	Boulder	**State/Province**	CO
Country	US	Postal Code	80302
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~MBPC.0101~~ RVLV.0101
	Application Number	
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

If the Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Non-Applicant Assignee:

Address 1	
Address 2	

City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the Add button.

Signature:

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

Signature	/Richard K. Huffman/			Date (YYYY-MM-DD)	2013-06-18
First Name	Richard	Last Name	Huffman	Registration Number	41082

Additional Signature may be generated within this form by selecting the Add button.

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

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

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

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

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

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	13839828	**Docket Number**	RVLV.0101
Filed	3/15/13	**Group Art Unit**	2642
Examiner		**Customer No.**	23669
Application Title	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES		
First Named Inventor	JEFFREY P. MATHEWS		

REQUEST TO UPDATE APPLICANT NAME UNDER 37 CFR 1.46(C)

VIA EFS

Mail Stop **AMENDMENT**
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Please update the name of the Applicant to "Revolv Inc." as is specified in the application data sheet (ADS) submitted herewith. A statement of ownership under 37 CFR 3.73(c) attached to power of attorney by applicant assignee is also submitted herewith.

It is requested that the indicated information be corrected and a Corrected Filing Receipt be issued.

Respectfully submitted,
HUFFMAN PATENT GROUP, LLC

/Richard K. Huffman/

By: _____

RICHARD K. HUFFMAN, P.E.
Registration No. 41,082
Tel: (719) 330-2808

6/17/13

Date: _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/839,828	03/15/2013	2642	564	RVLV.0101	21	3

CONFIRMATION NO. 7021

REPLACEMENT FILING RECEIPT

23669
HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922

OC000000062147355

Date Mailed: 06/26/2013

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Jeffrey P. Mathews, Longmont, CO;
Lee R. Taylor, Boulder, CO;

Applicant(s)

REVOLV INC., Boulder, CO

Power of Attorney: The patent practitioners associated with Customer Number 23669

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/622,620 04/11/2012

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

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 04/26/2013
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/839,828**
Projected Publication Date: 10/17/2013
Non-Publication Request: No
Early Publication Request: No
** **SMALL ENTITY** **

Sonos Ex 1014, p. 94
Sonos v. Google, IPR2023-00806

Title

APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

Preliminary Class

455

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

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LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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UNITED STATES PATENT AND TRADEMARK OFFICE

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P.O. Box 1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/839,828	03/15/2013	Jeffrey P. Mathews	RVLV.0101

CONFIRMATION NO. 7021

23669
HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922

POA ACCEPTANCE LETTER

OC000000062147397

Date Mailed: 06/26/2013

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/18/2013.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/agizaw/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/839,828	03/15/2013	Jeffrey P. Mathews	RVLV.0101

CONFIRMATION NO. 7021

23669
HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922

PUBLICATION NOTICE

OC000000064437683

Title:APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

Publication No.US-2013-0272223-A1
Publication Date:10/17/2013

NOTICE OF PUBLICATION OF APPLICATION

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

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

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

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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Sonos v. Google, IPR2023-00806

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/839,828	03/15/2013	Jeffrey P. Mathews	RVLV.0101	7021

23669 7590 01/15/2015
HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922

EXAMINER
MASUR, PAUL H

ART UNIT	PAPER NUMBER
2464	

NOTIFICATION DATE	DELIVERY MODE
01/15/2015	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):

PTOHLG@me.com

Office Action Summary	Application No. 13/839,828	Applicant(s) MATHEWS ET AL.	
	Examiner Paul H. Masur	Art Unit 2464	AIA (First Inventor to File) 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 *03/15/2013*.

☐ 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) *1-21* 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) *1-21* 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 *03/15/2013* 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 *03/18/2013*.

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

4) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-21 are pending.

Notice of Pre-AIA or AIA Status

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

Information Disclosure Statement

3. **The information disclosure statement (IDS) submitted on 03/18/2013 was filed.** The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Specification

4. **The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors.** Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

5. **Claim 4 is objected to because of the following informalities:** the claim recites *"a application"* which should be amended to *"an application"*.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of pre-AIA 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.

7. Claims 1-6, 8-13 and 15-20 are rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by Economy et al. (US PG Pub 2013/0076491, which was cited on IDS dated 03/18/2013).

8. **As per claim 1,** Economy et al. teach an apparatus for commissioning a target device onto a wireless local area network (WLAN), comprising: a smart wireless device, comprising:

commissioning logic, configured to format and direct transmission of one or more WLAN configuration packets that convey WLAN configuration data *[Economy, ¶ 0045, "The dimmer switch 110 may be associated with (e.g., assigned to) the wireless control device 120, such that the wireless control device may transmit commands for controlling the intensity of the lighting load 104 or programming the dimmer switch 110. Such commands may be transmitted to the dimmer switch 110 via the RF signals 106. Digital messages transmitted to and from the dimmer switch 110 may include, for example, the MAC address and the IP address of the dimmer switch 110", The dimmer switch (see fig. 1, element 110) is assigned an IP address (see ¶ 0044). The wireless control device (see fig. 1, element 120) uses this IP address to create control messages (or configuration packets) destined for the dimmer switch. These control messages configure the dimmer switch via WLAN. The messages are produced by a product*

control application within the wireless control device (see ¶ 0042). See ¶ 0019 of the provisional application.]; and

a transducer, coupled to said commissioning logic, configured to transmit said one or more WLAN configuration packets over said transmission path to the target device, wherein said transducer is an existing component of said smart wireless device *[Economy, ¶ 0036, "The wireless control device 120 may transmit the digital messages via RF signals 106 either directly or via a wireless network that includes a standard wireless router 130. For example, the wireless control device 120 may transmit the RF signals 106 directly to the dimmer switch 110 via a point-to-point communication, such as a Wi-Fi communication link, e.g., an 802.11 wireless local area network (LAN)", The wireless control device (see fig. 1, element 120 and ¶ 0033) contains a transmitter for sending packets (see ¶s 0044 and 0045) across a WiFi communication link. See ¶ 0015 of the provisional application.].*

9. **As per claim 2,** Economy et al. teach the apparatus as recited in claim 1. Economy et al. also teach wherein said smart wireless device comprises a smartphone *[Economy, ¶ 0033, "The wireless control device 120 may be any device capable of performing wireless communications, such as, a smart phone (for example, an iPhone® smart phone, an Android® smart phone, or a Blackberry® smart phone), a personal computer, a laptop, a wireless-capable media device (e.g., MP3 player, gaming device, or television), or a tablet device, (for example, an iPad® hand-held computing device)" , See ¶ 0015 of the provisional application.].*

10. **As per claim 3,** Economy et al. teach the apparatus as recited in claim 1. Economy et al. also teach wherein said smart wireless device comprises a tablet computer *[Economy, ¶ 0033, "The wireless control device 120 may be any device capable of performing wireless communications, such as, a smart phone (for example, an iPhone® smart phone, an Android® smart phone, or a Blackberry® smart phone), a personal computer, a laptop, a wireless-capable media device (e.g., MP3 player, gaming device, or television), or a tablet device, (for example, an iPad® hand-held computing device)" , See ¶ 0015 of the provisional application.]*.

11. **As per claim 4,** Economy et al. teach the apparatus as recited in claim 1. Economy et al. also teach wherein said commissioning logic comprises a sequence of program instructions in an application directed towards commissioning the target device onto the WLAN *[Economy, ¶ 0042, "The wireless control device 120 may download a product control application for allowing the user to control the lighting load 104. In response to actuations of the displayed soft buttons or hard buttons, the wireless control device 120 transmits digital messages to the dimmer switch 110 directly or through other wireless communications described herein", The messages are produced by a product control application within the wireless control device. See ¶ 0018 of the provisional application.]*.

12. **As per claim 5,** Economy et al. teach the apparatus as recited in claim 1. Economy et al. also teach wherein said transducer comprises a camera flash, and wherein said transmission path comprises an optical transmission path *[Economy, ¶ 0043, "The wireless control device 120 may also comprise a camera lens 124 (FIG. 6)*

and a camera flash lighting source 126 (FIG. 6), which may also be used to transmit and receive optical signals for controlling the lighting load" The wireless control device (see fig. 5) may use its camera (see fig. 1, element 126) to transmit wireless control signals via an optical path to the dimmer switch. See ¶s 0018 and 0028 of the provisional application.], and wherein said camera flash is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to an optical sensor on the target device *[Economy, ¶ 0066, "The dimmer switch 110 further comprises an optical module 440, such as an optical signal receiving circuit for example. The optical module 440 may be optically coupled to the optical receiver 119. The optical module 440 may be coupled to the optical receiver 119 on the front surface of the dimmer switch 110, for example, through a light pipe (not shown), such that the optical module 440 may receive the optical signals from the wireless control device 120 via the light pipe", The dimmer switch contains an optical module, which receives optical signals from the camera display of the wireless control device. See ¶s 0025 and 0028 of the provisional application.]*.

13. **As per claim 6,** Economy et al. teach the apparatus as recited in claim 1. Economy et al. also teach wherein said transducer comprises a backlit display, and wherein said transmission path comprises an optical transmission path *[Economy, ¶ 0068, "FIG. 5 is a front view of the wireless control device 120 showing an example location of a portion 240 of the display screen 122 that may be used for transmitting optical signals. The wireless control device 120 may be operable to transmit a digital message via the optical signals by alternating a portion 240 of the display screen 122*

between black and white (or two other contrasting colors) to modulate the light output of (i.e., flash) the portion of the display screen", The wireless control device (see fig. 5) may use its display screen (see fig. 1, element 122) to transmit wireless control signals over an optical path to the dimmer switch (see also ¶ 0043). See ¶ 0026 of the provisional application.], and wherein said backlit display is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to an optical sensor on the target device *[Economy, ¶ 0066, "The dimmer switch 110 further comprises an optical module 440, such as an optical signal receiving circuit for example. The optical module 440 may be optically coupled to the optical receiver 119. The optical module 440 may be coupled to the optical receiver 119 on the front surface of the dimmer switch 110, for example, through a light pipe (not shown), such that the optical module 440 may receive the optical signals from the wireless control device 120 via the light pipe", The dimmer switch contains an optical module, which receives optical signals from the backlit display of the wireless control device. See ¶ 0025 of the provisional application.]*.

14. **As per claim 8,** Economy et al. teach an apparatus for wireless local area network (WLAN) device commissioning, comprising:

a smart wireless device, comprising: first commissioning logic, configured to format and direct transmission of one or more WLAN configuration packets *[Economy, ¶ 0045, "The dimmer switch 110 may be associated with (e.g., assigned to) the wireless control device 120, such that the wireless control device may transmit commands for controlling the intensity of the lighting load 104 or programming the dimmer switch 110.*

Such commands may be transmitted to the dimmer switch 110 via the RF signals 106. Digital messages transmitted to and from the dimmer switch 110 may include, for example, the MAC address and the IP address of the dimmer switch 110", The dimmer switch (see fig. 1, element 110) is assigned an IP address (see ¶ 0044). The wireless control device (see fig. 1, element 120) uses this IP address to create control messages (or configuration packets) destined for the dimmer switch. These control messages configure the dimmer switch via WLAN. The messages are produced by a product control application within the wireless control device (see ¶ 0042). See ¶ 0019 of the provisional application.]; and a first transducer, coupled to said first commissioning logic, configured to transmit said one or more WLAN configuration packets over said transmission path, wherein said first transducer is an existing component of said smart wireless device *[Economy, ¶ 0036, "The wireless control device 120 may transmit the digital messages via RF signals 106 either directly or via a wireless network that includes a standard wireless router 130. For example, the wireless control device 120 may transmit the RF signals 106 directly to the dimmer switch 110 via a point-to-point communication, such as a Wi-Fi communication link, e.g., an 802.11 wireless local area network (LAN)", The wireless control device (see fig. 1, element 120 and ¶ 0033) contains a transmitter for sending packets (see ¶s 0044 and 0045) across a WiFi communication link. See ¶ 0015 of the provisional application.]*; and

a target device, comprising: a second transducer, configured to receive said one or more WLAN configuration packets; second commissioning logic, coupled to said second transducer, configured to decode and process said one or more WLAN

configuration packets to recover WLAN configuration data *[Economy, ¶ 0065, "The dimmer switch 110 further includes a wireless communication module 430 for transmitting and receiving the RF signals 106 to and from the wireless control device 120 and/or the wireless router 130. For example, the wireless communication module 430 may be configured to communicate via a Wi-Fi communication link, a Wi-MAX communication link, a Clear Connect™ communication link, and/or a Bluetooth® communication link. When the wireless communication module 430 comprises a Wi-Fi module, the controller 414 is operable to control the lighting load 104 in response to received digital messages in Wi-Fi packets (i.e., Internet Protocol packets received via the Wi-Fi signals). The wireless communication module 430 may comprise an RF transceiver and an antenna", The dimmer switch (or target device, see fig. 4) contains a wireless communications module (see fig. 4, element 430). The wireless communications module receives the WLAN control (or configuration) messages from the smart wireless device. The dimmer switch further contains a controller (see fig. 4, element 414), which decodes and processes the received messages. See ¶ 0024 of the provisional application.]*; and

a wireless radio, operatively coupled to said commissioning logic, configured to employ said WLAN configuration data to enable said target device to join a WLAN *[Economy, ¶ 0072, "When the dimmer switch 110 successfully receives the unique identifier, the SSID, and/or the SSID password from the wireless control device 120, the dimmer switch 110 may connect to the local wireless network", In response to being assigned an IP address by the wireless control device, the dimmer switch uses this*

information to connect the local wireless network (or WLAN). See ¶ 0027 of the provisional application.].

15. **As per claim 9,** Economy et al. teach the apparatus as recited in claim 8. Economy et al. also teach wherein said smart wireless device comprises a smartphone *[Economy, ¶ 0033, "The wireless control device 120 may be any device capable of performing wireless communications, such as, a smart phone (for example, an iPhone® smart phone, an Android® smart phone, or a Blackberry® smart phone), a personal computer, a laptop, a wireless-capable media device (e.g., MP3 player, gaming device, or television), or a tablet device, (for example, an iPad® hand-held computing device)", See ¶ 0015 of the provisional application.].*

16. **As per claim 10,** Economy et al. teach the apparatus as recited in claim 8. Economy et al. also teach wherein said smart wireless device comprises a tablet computer *[Economy, ¶ 0033, "The wireless control device 120 may be any device capable of performing wireless communications, such as, a smart phone (for example, an iPhone® smart phone, an Android® smart phone, or a Blackberry® smart phone), a personal computer, a laptop, a wireless-capable media device (e.g., MP3 player, gaming device, or television), or a tablet device, (for example, an iPad® hand-held computing device)" , See ¶ 0015 of the provisional application.].*

17. **As per claim 11,** Economy et al. teach the apparatus as recited in claim 8. Economy et al. also teach wherein said first and second commissioning logics comprise a sequence of program instructions in one or more applications directed towards commissioning said target device onto said WLAN *[Economy, ¶ 0042, "The wireless*

control device 120 may download a product control application for allowing the user to control the lighting load 104. In response to actuations of the displayed soft buttons or hard buttons, the wireless control device 120 transmits digital messages to the dimmer switch 110 directly or through other wireless communications described herein", The messages are produced by a product control application within the wireless control device. See ¶ 0018 of the provisional application.].

18. **As per claim 12,** Economy et al. teach the apparatus as recited in claim 8. Economy et al. also teach wherein said first transducer comprises a camera flash *[Economy, ¶ 0043, "The wireless control device 120 may also comprise a camera lens 124 (FIG. 6) and a camera flash lighting source 126 (FIG. 6), which may also be used to transmit and receive optical signals for controlling the lighting load" The wireless control device (see fig. 5) may use its camera (see fig. 1, element 126) to transmit wireless control signals via an optical path to the dimmer switch. See ¶s 0018 and 0028 of the provisional application.]*, and wherein said second transducer comprises an optical sensor, and wherein said transmission path comprises an optical transmission path, and wherein said camera flash is modulated according to said first commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to said optical sensor *[Economy, ¶ 0066, "The dimmer switch 110 further comprises an optical module 440, such as an optical signal receiving circuit for example. The optical module 440 may be optically coupled to the optical receiver 119. The optical module 440 may be coupled to the optical receiver 119 on the front surface of the dimmer switch 110, for example, through a light pipe (not shown), such that the*

optical module 440 may receive the optical signals from the wireless control device 120 via the light pipe", The dimmer switch contains an optical module, which receives optical signals from the camera display of the wireless control device. See ¶s 0025 and 0028 of the provisional application.].

19. **As per claim 13,** Economy et al. teach the apparatus as recited in claim 8. Economy et al. also teach wherein said first transducer comprises a backlit display *[Economy, ¶ 0068, "FIG. 5 is a front view of the wireless control device 120 showing an example location of a portion 240 of the display screen 122 that may be used for transmitting optical signals. The wireless control device 120 may be operable to transmit a digital message via the optical signals by alternating a portion 240 of the display screen 122 between black and white (or two other contrasting colors) to modulate the light output of (i.e., flash) the portion of the display screen", The wireless control device (see fig. 5) may use its display screen (see fig. 1, element 122) to transmit wireless control signals over an optical path to the dimmer switch (see also ¶ 0043). See ¶ 0026 of the provisional application.]*, and wherein said second transducer comprises an optical sensor, and wherein said transmission path comprises an optical transmission path, and wherein said backlit display is modulated according to said first commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to said optical sensor *[Economy, ¶ 0066, "The dimmer switch 110 further comprises an optical module 440, such as an optical signal receiving circuit for example. The optical module 440 may be optically coupled to the optical receiver 119. The optical module 440 may be coupled to the optical receiver 119 on the front*

surface of the dimmer switch 110, for example, through a light pipe (not shown), such that the optical module 440 may receive the optical signals from the wireless control device 120 via the light pipe", The dimmer switch contains an optical module, which receives optical signals from the backlit display of the wireless control device. See ¶ 0025 of the provisional application.].

20. **As per claim 15,** Economy et al. teach a method for wireless local area network (WLAN) device commissioning, comprising:

executing a first application on a smart wireless device to format and direct transmission of one or more WLAN packets *[Economy, ¶ 0045, "The dimmer switch 110 may be associated with (e.g., assigned to) the wireless control device 120, such that the wireless control device may transmit commands for controlling the intensity of the lighting load 104 or programming the dimmer switch 110. Such commands may be transmitted to the dimmer switch 110 via the RF signals 106. Digital messages transmitted to and from the dimmer switch 110 may include, for example, the MAC address and the IP address of the dimmer switch 110", The dimmer switch (see fig. 1, element 110) is assigned an IP address (see ¶ 0044). The wireless control device (see fig. 1, element 120) uses this IP address to create control messages (or configuration packets) destined for the dimmer switch. These control messages configure the dimmer switch via WLAN. The messages are produced by a product control application within the wireless control device (see ¶ 0042). See ¶ 0019 of the provisional application.]*; via a first transducer of the smart wireless device, transmitting the one or more WLAN configuration packets over a transmission path, wherein the first transducer

is an existing component of the smart wireless device *[Economy, ¶ 0036, "The wireless control device 120 may transmit the digital messages via RF signals 106 either directly or via a wireless network that includes a standard wireless router 130. For example, the wireless control device 120 may transmit the RF signals 106 directly to the dimmer switch 110 via a point-to-point communication, such as a Wi-Fi communication link, e.g., an 802.11 wireless local area network (LAN)", The wireless control device (see fig. 1, element 120 and ¶ 0033) contains a transmitter for sending packets (see ¶s 0044 and 0045) across a WiFi communication link. See ¶ 0015 of the provisional application.]*;

via a second transducer disposed within a target device, receiving the one or more WLAN configuration packets; executing a second application on the target device to decode and process the one or more WLAN configuration packets to recover WLAN configuration data *[Economy, ¶ 0065, "The dimmer switch 110 further includes a wireless communication module 430 for transmitting and receiving the RF signals 106 to and from the wireless control device 120 and/or the wireless router 130. For example, the wireless communication module 430 may be configured to communicate via a Wi-Fi communication link, a Wi-MAX communication link, a Clear Connect™ communication link, and/or a Bluetooth® communication link. When the wireless communication module 430 comprises a Wi-Fi module, the controller 414 is operable to control the lighting load 104 in response to received digital messages in Wi-Fi packets (i.e., Internet Protocol packets received via the Wi-Fi signals). The wireless communication module 430 may comprise an RF transceiver and an antenna", The dimmer switch (or target device, see fig. 4) contains a wireless communications module (see fig. 4, element 430).*

The wireless communications module receives the WLAN control (or configuration) messages from the smart wireless device. The dimmer switch further contains a controller (see fig. 4, element 414), which decodes and processes the received messages. See ¶ 0024 of the provisional application.]; and

via a wireless radio disposed within the target device, employing the WLAN configuration data to enable the target device to join a WLAN *[Economy, ¶ 0072, "When the dimmer switch 110 successfully receives the unique identifier, the SSID, and/or the SSID password from the wireless control device 120, the dimmer switch 110 may connect to the local wireless network", In response to being assigned an IP address by the wireless control device, the dimmer switch uses this information to connect the local wireless network (or WLAN). See ¶ 0027 of the provisional application.]*.

21. **As per claim 16,** Economy et al. teach the method as recited in claim 15. Economy et al. also teach wherein the smart wireless device comprises a smartphone *[Economy, ¶ 0033, "The wireless control device 120 may be any device capable of performing wireless communications, such as, a smart phone (for example, an iPhone® smart phone, an Android® smart phone, or a Blackberry® smart phone), a personal computer, a laptop, a wireless-capable media device (e.g., MP3 player, gaming device, or television), or a tablet device, (for example, an iPad® hand-held computing device)" , See ¶ 0015 of the provisional application.]*.

22. **As per claim 17,** Economy et al. teach the method as recited in claim 15. Economy et al. also teach wherein the smart wireless device comprises a tablet computer *[Economy, ¶ 0033, "The wireless control device 120 may be any device*

capable of performing wireless communications, such as, a smart phone (for example, an iPhone® smart phone, an Android® smart phone, or a Blackberry® smart phone), a personal computer, a laptop, a wireless-capable media device (e.g., MP3 player, gaming device, or television), or a tablet device, (for example, an iPad® hand-held computing device)" , See ¶ 0015 of the provisional application.].

23. **As per claim 18,** Economy et al. teach the method as recited in claim 15. Economy et al. also teach wherein the first and second applications comprise first and second sequences of program instructions directed towards commissioning the target device onto the WLAN *[Economy, ¶ 0042, "The wireless control device 120 may download a product control application for allowing the user to control the lighting load 104. In response to actuations of the displayed soft buttons or hard buttons, the wireless control device 120 transmits digital messages to the dimmer switch 110 directly or through other wireless communications described herein", The messages are produced by a product control application within the wireless control device. See ¶ 0018 of the provisional application.].*

24. **As per claim 19,** Economy et al. teach the method as recited in claim 15. Economy et al. also teach wherein the first transducer comprises a camera flash *[Economy, ¶ 0043, "The wireless control device 120 may also comprise a camera lens 124 (FIG. 6) and a camera flash lighting source 126 (FIG. 6), which may also be used to transmit and receive optical signals for controlling the lighting load" The wireless control device (see fig. 5) may use its camera (see fig. 1, element 126) to transmit wireless control signals via an optical path to the dimmer switch. See ¶s 0018 0028 of the*

provisional application.], and wherein the second transducer comprises an optical sensor, and wherein the transmission path comprises an optical transmission path, and wherein the camera flash is modulated according to the first application to transmit the one or more WLAN configuration packets over the optical transmission path to the optical sensor *[Economy, ¶ 0066, "The dimmer switch 110 further comprises an optical module 440, such as an optical signal receiving circuit for example. The optical module 440 may be optically coupled to the optical receiver 119. The optical module 440 may be coupled to the optical receiver 119 on the front surface of the dimmer switch 110, for example, through a light pipe (not shown), such that the optical module 440 may receive the optical signals from the wireless control device 120 via the light pipe", The dimmer switch contains an optical module, which receives optical signals from the camera display of the wireless control device. See ¶s 0025 and 0028 of the provisional application.]*.

25. **As per claim 20,** Economy et al. teach the method as recited in claim 15. Economy et al. also teach wherein the first transducer comprises a backlit display *[Economy, ¶ 0068, "FIG. 5 is a front view of the wireless control device 120 showing an example location of a portion 240 of the display screen 122 that may be used for transmitting optical signals. The wireless control device 120 may be operable to transmit a digital message via the optical signals by alternating a portion 240 of the display screen 122 between black and white (or two other contrasting colors) to modulate the light output of (i.e., flash) the portion of the display screen", The wireless control device (see fig. 5) may use its display screen (see fig. 1, element 122) to*

transmit wireless control signals over an optical path to the dimmer switch (see also ¶ 0043). See ¶ 0026 of the provisional application.], and wherein the second transducer comprises an optical sensor, and wherein the transmission path comprises an optical transmission path, and wherein the backlit display is modulated according to the first application to transmit the one or more WLAN configuration packets over the optical transmission path to the optical sensor *[Economy, ¶ 0066, "The dimmer switch 110 further comprises an optical module 440, such as an optical signal receiving circuit for example. The optical module 440 may be optically coupled to the optical receiver 119. The optical module 440 may be coupled to the optical receiver 119 on the front surface of the dimmer switch 110, for example, through a light pipe (not shown), such that the optical module 440 may receive the optical signals from the wireless control device 120 via the light pipe", The dimmer switch contains an optical module, which receives optical signals from the backlit display of the wireless control device. See ¶ 0025 of the provisional application.]*.

Claim Rejections - 35 USC § 103

26. The following is a quotation of pre-AIA 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.

27. Claims 7, 14 and 21 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Economy et al. (US PG Pub 2013/0076491, which was cited on IDS dated 03/18/2013) in view of Covaro (US PG Pub 2011/0202151).

28. **As per claim 7,** Economy et al. teach the apparatus as recited in claim 1. Economy et al. also teach WLAN configuration packets *[Economy, ¶ 0045, "The dimmer switch 110 may be associated with (e.g., assigned to) the wireless control device 120, such that the wireless control device may transmit commands for controlling the intensity of the lighting load 104 or programming the dimmer switch 110. Such commands may be transmitted to the dimmer switch 110 via the RF signals 106. Digital messages transmitted to and from the dimmer switch 110 may include, for example, the MAC address and the IP address of the dimmer switch 110", The dimmer switch (see fig. 1, element 110) is assigned an IP address (see ¶ 0044). The wireless control device (see fig. 1, element 120) uses this IP address to create control messages (or configuration packets) destined for the dimmer switch. These control messages configure the dimmer switch via WLAN. The messages are produced by a product control application within the wireless control device (see ¶ 0042). See ¶ 0019 of the provisional application.]*.

Economy et al. do not explicitly teach wherein said transducer comprises an audio speaker, and wherein said transmission path comprises an audio transmission path, and wherein said audio speaker is modulated according to said commissioning logic to transmit said one or more...packets over said audio transmission path to an audio sensor on the target device.

However, Covaro et al. teach wherein said transducer comprises an audio speaker, and wherein said transmission path comprises an audio transmission path *[Covaro, ¶ 0070, "The signal source 330, or source emitter, may include any device that*

transmits a signal that may be received by a sensor 370 in the lighting system, such as the photosensor 120 in FIG. 1. Examples of the signal source 330 include a display screen, an LED, a radio frequency antenna; an infrared, an ultraviolet, or a visible light source; and a speaker, an ultrasonic emitter or other sound generator. Thus, in one or more examples, the computing device 180 may include the display device 110, where the signal source 330 includes the display screen", The signal source (see fig. 3, element 330) of the computing device (see fig. 1, element 180 and ¶ 0028) may emit sound signals over the wireless link (see fig. 3, element 280) to the sensor (see fig. 3, element 370) of the lighting system.], and wherein said audio speaker is modulated according to said commissioning logic to transmit said one or more…packets over said audio transmission path to an audio sensor on the target device *[Covaro, ¶ 0076, "For example, the wireless link 380 may comprise sound-based communication between the signal source 330 and the sensor 370. For example, the signal source 330 may include one or more speakers and the sensor 370 may include a microphone electrically coupled to the light adapter 140", The wireless link (or audio transmission path) may be used for the transmission of audio signals from the computing device to the lighting device, where the signals are used to communicate with the lighting device (see ¶ 0079).].*

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the audio signaling as taught by Covaro et al. into Economy et al. By modifying the wireless control device and dimmer switch of Economy et al. to perform the audio signaling as performed by the computing device

and lighting device of Covaro et al., the benefits of controlling lighting from a wireless device (see Covaro, ¶ 0016 and Economy, ¶ 0007) are achieved.

29. **As per claim 14,** Economy et al. teach the apparatus as recited in claim 8. Economy et al. also teach WLAN configuration packets *[Economy, ¶ 0045, "The dimmer switch 110 may be associated with (e.g., assigned to) the wireless control device 120, such that the wireless control device may transmit commands for controlling the intensity of the lighting load 104 or programming the dimmer switch 110. Such commands may be transmitted to the dimmer switch 110 via the RF signals 106. Digital messages transmitted to and from the dimmer switch 110 may include, for example, the MAC address and the IP address of the dimmer switch 110", The dimmer switch (see fig. 1, element 110) is assigned an IP address (see ¶ 0044). The wireless control device (see fig. 1, element 120) uses this IP address to create control messages (or configuration packets) destined for the dimmer switch. These control messages configure the dimmer switch via WLAN. The messages are produced by a product control application within the wireless control device (see ¶ 0042). See ¶ 0019 of the provisional application.].*

Economy et al. do not explicitly teach wherein said first transducer comprises an audio speaker, and wherein said second transducer comprises an audio sensor, and wherein said transmission path comprises an audio transmission path, and wherein said audio speaker is modulated according to said first commissioning logic to transmit said one or more…packets over said audio transmission path to said audio sensor.

However, Covaro et al. teach wherein said first transducer comprises an audio speaker, and wherein said second transducer comprises an audio sensor, and wherein said transmission path comprises an audio transmission path *[Covaro, ¶ 0070, "The signal source 330, or source emitter, may include any device that transmits a signal that may be received by a sensor 370 in the lighting system, such as the photosensor 120 in FIG. 1. Examples of the signal source 330 include a display screen, an LED, a radio frequency antenna; an infrared, an ultraviolet, or a visible light source; and a speaker, an ultrasonic emitter or other sound generator. Thus, in one or more examples, the computing device 180 may include the display device 110, where the signal source 330 includes the display screen", The signal source (see fig. 3, element 330) of the computing device (see fig. 1, element 180 and ¶ 0028) may emit sound signals over the wireless link (see fig. 3, element 280) to the sensor (see fig. 3, element 370) of the lighting system.]*, and wherein said audio speaker is modulated according to said first commissioning logic to transmit said one or more…packets over said audio transmission path to said audio sensor *[Covaro, ¶ 0076, "For example, the wireless link 380 may comprise sound-based communication between the signal source 330 and the sensor 370. For example, the signal source 330 may include one or more speakers and the sensor 370 may include a microphone electrically coupled to the light adapter 140", The wireless link (or audio transmission path) may be used for the transmission of audio signals from the computing device to the lighting device, where the signals are used to communicate with the lighting device (see ¶ 0079).].*

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the audio signaling as taught by Covaro et al. into Economy et al. By modifying the wireless control device and dimmer switch of Economy et al. to perform the audio signaling as performed by the computing device and lighting device of Covaro et al., the benefits of controlling lighting from a wireless device (see Covaro, ¶ 0016 and Economy, ¶ 0007) are achieved.

30. **As per claim 21,** Economy et al. teach the method as recited in claim 15. Economy et al. also teach WLAN configuration packets *[Economy, ¶ 0045, "The dimmer switch 110 may be associated with (e.g., assigned to) the wireless control device 120, such that the wireless control device may transmit commands for controlling the intensity of the lighting load 104 or programming the dimmer switch 110. Such commands may be transmitted to the dimmer switch 110 via the RF signals 106. Digital messages transmitted to and from the dimmer switch 110 may include, for example, the MAC address and the IP address of the dimmer switch 110", The dimmer switch (see fig. 1, element 110) is assigned an IP address (see ¶ 0044). The wireless control device (see fig. 1, element 120) uses this IP address to create control messages (or configuration packets) destined for the dimmer switch. These control messages configure the dimmer switch via WLAN. The messages are produced by a product control application within the wireless control device (see ¶ 0042). See ¶ 0019 of the provisional application.].*

Economy et al. do not explicitly teach wherein the first transducer comprises an audio speaker, and wherein the second transducer comprises an audio sensor, and

wherein the transmission path comprises an audio transmission path, and wherein the audio speaker is modulated according to the first application to transmit the one or more WLAN configuration packets over the audio transmission path to the audio sensor.

However, Covaro et al. teach wherein the first transducer comprises an audio speaker, and wherein the second transducer comprises an audio sensor, and wherein the transmission path comprises an audio transmission path *[Covaro, ¶ 0070, "The signal source 330, or source emitter, may include any device that transmits a signal that may be received by a sensor 370 in the lighting system, such as the photosensor 120 in FIG. 1. Examples of the signal source 330 include a display screen, an LED, a radio frequency antenna; an infrared, an ultraviolet, or a visible light source; and a speaker, an ultrasonic emitter or other sound generator. Thus, in one or more examples, the computing device 180 may include the display device 110, where the signal source 330 includes the display screen", The signal source (see fig. 3, element 330) of the computing device (see fig. 1, element 180 and ¶ 0028) may emit sound signals over the wireless link (see fig. 3, element 280) to the sensor (see fig. 3, element 370) of the lighting system.]*, and wherein the audio speaker is modulated according to the first application to transmit the one or more…packets over the audio transmission path to the audio sensor *[Covaro, ¶ 0076, "For example, the wireless link 380 may comprise sound-based communication between the signal source 330 and the sensor 370. For example, the signal source 330 may include one or more speakers and the sensor 370 may include a microphone electrically coupled to the light adapter 140", The wireless link (or audio transmission path) may be used for the transmission of audio signals from*

the computing device to the lighting device, where the signals are used to communicate with the lighting device (see ¶ 0079).].

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the audio signaling as taught by Covaro et al. into Economy et al. By modifying the wireless control device and dimmer switch of Economy et al. to perform the audio signaling as performed by the computing device and lighting device of Covaro et al., the benefits of controlling lighting from a wireless device (see Covaro, ¶ 0016 and Economy, ¶ 0007) are achieved.

Conclusion

31. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The reference, Brandsma et al. (US PG Pub 2013/0076491), teaches commissioning devices.

The reference, Lu et al. (US PG Pub 2012/0049765), teaches a chandelier lamp system.

The reference, Henig et al. (US PG Pub 2011/0199004), teaches commissioning a lighting system.

The reference, Recker et al. (US PG Pub 2011/0121654), teaches remote switching in lighting devices.

The reference, Recker et al. (US PG Pub 2011/0141153), teaches wireless lighting devices and applications.

The reference, Pereira et al. (US PG Pub 2009/0080896), teaches commissioning a number of wireless nodes.

The reference, Yee (US PG Pub 2008/0089300), teaches establishment of ad-hoc networks between multiple devices.

The reference, Chhabra (US PG Pub 2008/0037444), teaches ad-hoc simple configuration.

32. **The Examiner has cited particular columns and line numbers or paragraphs in the references applied to the claims above for the convenience of the applicant.** Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in their entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, the Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

33. **If the Applicant is of the opinion that an interview would help advance prosecution in this case, they are welcome to call the Examiner, Paul Masur, at the number listed below to schedule an interview.** The Examiner prefers interview requests be accompanied with a detailed agenda via fax. The Examiner is willing to

consider proposed amendments, clarify rejections, and discuss any other issues that are presented by the Applicant. Please note that the Examiner may not be able to accommodate all requests due to scheduling constraints. It is recommended that interview requests be sent with ample time to schedule an interview.

34. **Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul H. Masur whose telephone number is (571)270-7297.** The examiner can normally be reached on Monday through Friday from 7:30 AM to 5 PM (Eastern Time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. 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.

/Paul H. Masur/
Primary Examiner, Art Unit 2464

Notice of References Cited	Application/Control No. 13/839,828	Applicant(s)/Patent Under Reexamination MATHEWS ET AL.	
	Examiner Paul H. Masur	Art Unit 2464	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2008/0037444 A1	02-2008	Chhabra, Kapil	370/254
*	B	US-2008/0089300 A1	04-2008	Yee, James	370/338
*	C	US-2009/0080896 A1	03-2009	Pereira et al.	398/115
*	D	US-2010/0141153 A1	06-2010	Recker et al.	315/149
*	E	US-2011/0121654 A1	05-2011	Recker et al.	307/66
*	F	US-2011/0199004 A1	08-2011	Henig et al.	315/152
*	G	US-2011/0202151 A1	08-2011	Covaro et al.	700/90
*	H	US-2012/0049765 A1	03-2012	Lu et al.	315/312
*	I	US-2013/0076491 A1	03-2013	Brandsma et al.	340/10.3
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

Main Concept (text)
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commissioning a target device onto a wireless local area network (WLAN), comprising: a smart wireless device, comprising: commissioning logic, configured to format and direct transmission of one or more WLAN configuration packets that convey WLAN configuration data; and a transducer, coupled to said commissioning logic, configured to transmit said one or more WLAN configuration packets over said transmission path to the target device, wherein said transducer is an existing component of said smart wireless device. said transducer comprises a camera flash, and wherein said transmission path comprises an optical transmission path, and wherein said camera flash is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to an optical sensor on the target device. said transducer comprises a backlit display, and wherein said transmission path comprises an optical transmission path, and wherein said backlit display is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to an optical sensor on the target device. said transducer comprises an audio speaker, and wherein said transmission path comprises an audio transmission path, and wherein said audio speaker is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said audio transmission path to an audio sensor on the target device.

Collections (11)
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Australian Patent Documents
Canadian Applications
Canadian Patents
Chinese Applications
Chinese Patents
European Applications
European Patents
Japanese Applications
US Applications
US Patents
WIPO Applications

Other Options
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Sort by: Relevance
Relevance: 3 stars and up

Main Concept (text)
==========
However, in contrast to present day commissioning techniques, the technique according to the present invention utilizes a smart wireless device 321 to commission the other device 307 according to the present invention onto the WLAN 304 by utilizing existing mechanisms (i.e., transmitting elements (not shown)) on the smart wireless device 321 to transmit configuration information over a transmission path 322 to the other device 307, thus enabling the other device 307 to join the WLAN. The other device 307 is configured to include receiving elements (not shown) that correspond to the transmitting elements and transmission path 322, thus enabling the other device 307 to receive and process the configuration information. It is a feature of the present invention to employ a smart wireless device 321 and to utilize existing elements within the smart wireless device 321 to transmit the configuration information to the other device such as an internal microcomputer, memory, a camera flash, backlit display, touchscreen or keyboard, and the like. Advantageously then, commissioning can be affected without a requirement for special commissioning equipment or special user skill In one embodiment, the smart wireless device 321 utilizes a side band, proximity based, communication channel 322 that is established between a the smart wireless device 321 and the other device 307 to be commissioned onto the WLAN 304. The transmitting and receiving elements perform the functions and operations as discussed above. The transmitting and receiving elements comprise logic, circuits, devices, or program instructions executed by a microprocessor or other processing unit, or a combination of logic, circuits, devices, or program instructions executing on a microprocessor of other processing unit, or equivalent elements that are employed to execute the functions and operations according to the present invention as disclosed herein. The elements employed to accomplish these operations and functions within the transmitting and receiving elements may be shared with other circuits, program instructions, etc., that are employed to perform other functions and/or operations within the transmitting and receiving elements. In one embodiment, the smart device 321 constructs a commissioning message that includes WLAN configuration data. The message is transmitted by the smart device 321 to the other device 307 via the transmitting elements and the message is received by the other device 307 via the receiving elements. In one embodiment, the WLAN configuration data comprises the name of the WLAN, security mode, and any required security passphrase. Other embodiments contemplate additional or different configuration data as is appropriate for commissioning the other device 307 Some embodiments of the present invention may transmit other information in addition to WLAN configuration data. In one such embodiment, the commissioning device sends its own Internet protocol (IP) address, proxy, and gateway configuration to the device to be commissioned. Once the device to be commissioned has successfully joined the WLAN, then the device proceeds to contact the commissioning device via the WLAN to indicate success and to optionally communicate additional configuration data as is described above. In some embodiments, the commissioned device provides a visual or audio indication to the user about the status of the commissioning process. In one embodiment, the commissioned device may illuminate an indicator (e.g., light emitting diode (LED)) to indicate progress, success, or failure of the commissioning. In another embodiment, the commissioned device may use a speaker to provide an audio indication of the commissioning status. One embodiment of the present invention includes a configuration mode where the commissioned device communicates back to the smart wireless device via optical or audio transmission. The smart wireless device may observe this communication with existing hardware, such as a built-in camera for reception of the optical transmission, or a microphone for reception of the audio transmission. This type of communication may be used to alert the smart wireless device (and operator) of success or failure conditions

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Canadian Patents
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Chinese Patents
European Applications
European Patents
Japanese Applications
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US Patents
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Filters (1)
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Earliest Priority Date: *** - 10-Apr-2012

Other Options
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13839828	MATHEWS ET AL.
	Examiner	Art Unit
	PAUL H MASUR	2464

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

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

CLAIM		DATE								
Final	Original	01/09/2015								
	1	✓								
	2	✓								
	3	✓								
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	18	✓								
	19	✓								
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	21	✓								

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13839828	MATHEWS ET AL.
	Examiner	Art Unit
	PAUL H MASUR	2464

CPC- SEARCHED		
Symbol	Date	Examiner
H04W76/02	1/6/2015	
H04W84/12,18	1/6/2015	/P.H.M./
H04W12/06	1/6/2015	/P.H.M./
H05B37/02,0245,0272	1/9/2015	/P.H.M./

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search	1/5/2015	/P.H.M./
Considered IDS documents	1/5/2015	/P.H.M./
Began text and classification search	1/6/2015	/P.H.M./
IP.com search (see attached)	1/6/2015	/P.H.M./
NPL Search (Google Scholar)	1/6/2015	/P.H.M./
Consulted related application 13/538,615	1/7/2015	/P.H.M./
Checked Common Citation Document (CCD)	1/7/2015	/P.H.M./
Completed text and classification search	1/9/2015	/P.H.M./
Databases Used: USPAT, US-PGPUB, EPO, JPO, DERWENT, IBM_TDB	1/9/2015	/P.H.M./

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	47	((Jeffrey) near2 (Mathews)).INV.	US-PGPUB; USPAT	OR	ON	2015/01/05 08:20
S2	72	((Lee) near2 (Taylor)).INV.	US-PGPUB; USPAT	OR	ON	2015/01/05 08:20
S3	118	S1 S2	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/05 08:21
S5	16	US-20130026947-$.DID. OR US-8228198-$.DID. OR US-20100283584-$.DID. OR US-8265674-$.DID. OR US-7953327-$.DID. OR US-20110172844-$.DID. OR US-7830258-$.DID. OR US-8049434-$.DID. OR US-20120082062-$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/05 08:21
S6	320	commiss$5 near2 wireless	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 11:52
S7	341700	wlan (wireless near2 (lan (local near2 area near2 network))) "802.11"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 11:53
S8	139	S6 and S7	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 11:53
S9	71	S7 near2 (configur$6 setup) near2 packet	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 11:53
S10	1	S6 and S9	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 11:53
S11	7017	S7 near2 (configur$6 setup)	US-PGPUB; USPAT; FPRS; EPO;	OR	ON	2015/01/06 11:54

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S12	28301	S7 with (configur$6 setup)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 11:54
S13	5	S6 and S12	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 11:54
S14	36	S8 and sensor	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 14:04
S15	18	S14 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 14:07
S16	35019	wps (wifi near2 protect$4 near2 secur$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:03
S17	320	commiss$5 near2 wireless	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:03
S18	2	S16 and S17	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:03
S19	3	S16 same audio same optic$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:04
S20	353	S16 and (audio same optic$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:05
S21	3211	(audio near2 transmi$7) and (optic$3 near2 transmi$7)	US-PGPUB; USPAT; FPRS; EPO;	OR	ON	2015/01/06 15:12

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S22	39	S16 and S21	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:12
S23	6	S22 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:12
S24	26827	(audio with transmi$7) and (optic$3 with transmi$7)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:13
S25	3595	wps (wifi near2 protect$4 near2 secur$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/06 15:13
S26	68	S24 and S25	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/06 15:13
S27	5	S26 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:13
S28	674	S25 and sensor	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:14
S29	266	S28 and audio and optic$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:14
S30	1	S29 and (configur$6 setup) near2 packet	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:14
S31	47	((Jeffrey) near2 (Mathews)).INV.	US-PGPUB; USPAT	OR	ON	2015/01/06 15:16
S32	72	((Lee) near2 (Taylor)).INV.	US-PGPUB;	OR	ON	2015/01/06

			USPAT			15:16
S33	118	S31 S32	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:16
S34	1	S33 and (wlan).clm.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:16
S35	35007	wps (wifi near2 protect$4 near2 setup)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:29
S36	3615	wps (wifi near2 protect$4 near2 setup)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/06 15:29
S37	67	S24 and S36	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/06 15:29
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S39	27954	H04W76/02.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:34
S40	78	S36 and S39	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:34
S41	15	S40 and audio and optic$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 15:34
S42	3	S41 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/01/06 15:34

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S44	35430	H04W12/06.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/06 16:15
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S46	158	S36 and S44	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/06 16:16
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S48	78	S47 and audio and optic$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 16:16
S49	19	S48 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 16:16
S50	3810	wps ((wifi wi?fi) near2 protect$4 near2 setup)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/06 16:18
S51	290	S43 and S50	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/06 16:19
S52	178	S44 and S50	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/01/06 16:19

			IBM_TDB			
S53	412	S51 S52	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/06 16:19
S54	87	S53 and audio and optic$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 16:19
S55	20	S54 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/06 16:19
S56	19	("20010024164" | "20030034898" | "20060202851" | "20060251059" | "20060285150" | "20080136356" | "20080278297" | "20090322251" | "5982103").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/07 14:02
S57	5510	H05B37/0272.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:37
S58	3446	S57 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:38
S59	103957	(audio near2 transmi$7)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:38
S60	25	S58 and S59	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:38
S61	342129	wlan (wireless near2 (lan (local near2 area near2 network))) "802.11"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:39
S62	7	S60 and S61	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/01/09 14:39

			IBM_TDB			
S63	14471	H05B37/02,0245,0272.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:42
S64	15	S63 and S59 and S61	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:43
S65	7	S64 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:43
S66	192219	(audio near2 (transmi$7 control$4 configur$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:43
S67	36	S63 and S61 and S66	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:43
S68	14	S67 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:43
S69	140	S58 and S61	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 14:44
S70	5372318	wtru ue ms mn mt ss (mobile near2 (node terminal station subscrib$3) (wireless near2 transmi$7 near2 unit) (subscrib$3 near2 station) (user near2 equipment)) ((cell$5 smart) near2 phone) (wireless near2 (unit device terminal))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/09 14:47
S71	93	S69 and S70	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/09 14:48
S72	29	S71 and (audio speaker)	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	OFF	2015/01/09 14:48

			DERWENT; IBM_TDB			
S73	320	commiss$5 near2 wireless	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 15:17
S74	2	S71 and S73	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/01/09 15:17
S75	12189	S61 with (audio sound noise)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 15:43
S76	150	(S61 near2 packet) with (audio sound noise)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 15:43
S77	101	S76 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 15:43
S78	0	S63 and S77	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 15:43
S79	14	(S61 near2 packet) with (speaker)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/09 15:45

1/9/2015 3:55:01 PM
C:\Users\pmasur\Documents\2015\Quarter1\FAOM\13_839828\13_839828.wsp

				Complete if Known	
				Application Number	13839828
				Filing Date	03/15/2013
				First Named Inventor	Jeffrey P. Mathews
				Group Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	MBPG.0101

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		20130026947	01-31-2013	Economy et al.	
		8228198	07-24-2012	Clarke Mcallister	
		20100283584	11-11-2010	Clarke Mcallister	
		8265674	09-11-2012	Choong et al.	
		7953327	05-31-2011	Pereira et al.	
		20110172844	07-14-2011	Choong et al.	
		7830258	11-09-2010	Clarke W. Mcallister	
		8049434	11-01-2011	Crouse et al.	
		20120082062	04-05-2012	James Joseph Anthony Mccormack	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] - Number[4] - Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Paul H. Masur/	Date Considered	01/06/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.
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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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

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

BIB DATA SHEET

CONFIRMATION NO. 7021

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
13/839,828	03/15/2013	370	2464	RVLV.0101

APPLICANTS

REVOLV INC., Boulder, CO, Assignee (with 37 CFR 1.172 Interest);

INVENTORS

Jeffrey P. Mathews, Longmont, CO;
Lee R. Taylor, Boulder, CO;

**** CONTINUING DATA ***************************

This appln claims benefit of 61/622,620 04/11/2012

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
04/26/2013

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /PAUL H MASUR/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		CO	8	21	3

ADDRESS

HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922
UNITED STATES

TITLE

APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

FILING FEE RECEIVED		
564	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

PTO/AIA/82B(07-12)
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent):

82750

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent):

Name	Registration Number	Name	Registration Number

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

☒ The address associated with the above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant:

☐ Inventor or Joint Inventor

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor

☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (*e.g.*, a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)

SIGNATURE of Applicant for Patent

Signature		Date	June 6, 2013
Name	Allen Lo	Telephone	650-253-0000
Title and Company	Deputy General Counsel & Assistant Secretary, Google Inc.		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms for more than one signature, see below *.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Electronic Acknowledgement Receipt

EFS ID:	21616029
Application Number:	13839828
International Application Number:	
Confirmation Number:	7021
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Customer Number:	23669
Filer:	Douglas James Crisman/Linda Quintana
Filer Authorized By:	Douglas James Crisman
Attorney Docket Number:	RVLV.0101
Receipt Date:	26-FEB-2015
Filing Date:	15-MAR-2013
Time Stamp:	20:15:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		104248-5041-US_SuppADS.pdf	477516 7b205af3c6737cccaa3bb9c736db8e17cbb38772	yes	7

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	1
	Application Data Sheet	2	7

Warnings:					
Information:					
2		104248-5041-US_373c-POA.pdf	143867 e71dabd9d967182931ef7a5680316634d27b6984	yes	3

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Assignee showing of ownership per 37 CFR 3.73.	1	2
	Power of Attorney	3	3

Warnings:	
Information:	
Total Files Size (in bytes):	621383

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronically filed February 26, 2015

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Jeffrey P. Mathews et al.	Confirmation No.:	7021
Serial No.:	13/839,828	Art Unit:	2464
Filed:	March 15, 2013	Examiner:	Masur, Paul H.
For:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	Attorney Docket No:	104248-5041-US

SUPPLEMENTAL APPLICATION DATA SHEET

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

Sir:

Enclosed is a Supplemental Application Data Sheet and has been marked-up to show changes to the Correspondence Information, Application Information, Representative Information and Applicant Information sections.

No fees are believed due with this filing, however, the Commissioner is hereby authorized to charge any required fee(s) to Morgan, Lewis & Bockius LLP Deposit Account No. 50-0310 (order no. 104248-5041-US).

Respectfully submitted,

Date: February 26, 2015

39,951

Douglas J. Crisman (Reg. No.)
MORGAN, LEWIS & BOCKIUS LLP
2 Palo Alto Square
3000 El Camino Real, Suite 700
Palo Alto, CA 94306
(650) 843-4000

Sonos Ex 1014, p. 146
Sonos v. Google, IPR2023-00806

PTO/AIA/14 (03-13)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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SUPPLEMENTAL Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~MBPG.0101~~ ~~RVLV.0101~~ 104248-5
	Application Number	13/839,828
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jeffrey	P.	Mathews	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Longmont	State/Province	CO	Country of Residence	US

Mailing Address of Inventor:

Address 1	3900 Fowler Ln
Address 2	

City	Longmont	State/Province	CO
Postal Code	80503	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Lee	R.	Taylor	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Boulder	State/Province	CO	Country of Residence	US

Mailing Address of Inventor:

Address 1	4632 Starboard Dr.
Address 2	

City	Boulder	State/Province	CO
Postal Code	80301	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

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SUPPLEMENTAL Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~MBPG.0101~~ ~~104248-5041-US RVLV.0101~~
	Application Number	13/839,828
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

☐ An Address is being provided for the correspondence Information of this application.			
Customer Number	~~23669~~ 82750		
Email Address	~~ptohlg@me.com~~	Add Email	Remove Email

Application Information:

Title of the Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES		
Attorney Docket Number	~~MBPG.0101~~ ~~104248-5041-US RVLV.0101~~	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	6	**Suggested Figure for Publication (if any)**	3

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	~~23669~~ 82750		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61622620	2012-04-11

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

PTO/AIA/14 (03-13)
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Application Data Sheet 37 CFR 1.76 (SUPPLEMENTAL)	Attorney Docket Number	~~MBRG.0101~~ ~~RVLV.0101~~ 104248-5041
	Application Number	13/839,828

Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

PTO/AIA/14 (05-13)
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SUPPLEMENTAL Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~MBPG.0101~~ ~~RVLV.0101~~ 104248-5041-0
	Application Number	13/839,828
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

(●) Assignee	( ) Legal Representative under 35 U.S.C. 117	( ) Joint Inventor
( ) Person to whom the inventor is obligated to assign.	( ) Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	~~Mobiplug Networks Inc.~~ ~~REVOLV INC.~~ Google Inc.		
Mailing Address Information For Applicant:			
Address 1	~~2060 Broadway St., Suite 380~~ 1600 Amphitheatre Parkway		
Address 2			
City	~~Boulder~~ Mountain View	**State/Province**	~~CO~~ CA
Country	US	Postal Code	~~80302~~ 94043
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

PTO/AIA/14 (05-13)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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SUPPLEMENTAL Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~MBPG.0101~~ 104248-5041-US ~~RVIEW.0101~~
	Application Number	13/839,828
Title of Invention	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

If the Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country [i]		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the Add button.

Signature:

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

Signature	/Richard K. Huffman/			Date (YYYY-MM-DD)	2013-06-18
First Name	Richard	Last Name	Huffman	Registration Number	41082

Additional Signature may be generated within this form by selecting the Add button.

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

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

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

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

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

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

Electronically filed February 26, 2015

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Jeffrey P. Mathews et al.	Confirmation No.:	7021
Serial No.:	13/839,828	Art Unit	2464
Filed:	March 15, 2013	Examiner:	Masur, Paul H.
For:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES	Attorney Docket No.:	104248-5041-US

STATEMENT UNDER 37 C.F.R. § 3.73(c)

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

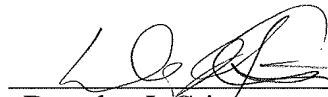
Sir:

GOOGLE INC., a corporation, states that it is the assignee of the entire right, title and interest of the patent application identified above by virtue of an assignment from the inventors of the patent application identified above:

1.	From:	Jeffrey P. Mathews, Lee R. Taylor				
	To:	Mobiplug Networks Inc.				
	Recorded:	3/15/2013	Reel:	030020	Frame:	0015
2.	From:	Mobiplug Networks Inc.				
	To:	Revolv Inc.				
	Recorded:	5/7/2013	Reel:	030364	Frame:	0158
3.	From:	Revolv Inc.				
	To:	Nest Labs, Inc.				
	Recorded:	11/24/2014	Reel:	034254	Frame:	0874
4.	From:	Nest Labs, Inc.				
	To:	Google Inc.				
	Recorded:	11/25/2014	Reel:	034266	Frame:	0374

The undersigned is authorized to act on behalf of the assignee.

Date: February 26, 2015



39,951
(Reg. No.)

Douglas J. Crisman
MORGAN, LEWIS & BOCKIUS LLP
2 Palo Alto Square
3000 El Camino Real, Suite 700
Palo Alto, CA 94306
(650) 843-4000

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/839,828	03/15/2013	Jeffrey P. Mathews	104248-5041-US

CONFIRMATION NO. 7021

82750
MORGAN, LEWIS & BOCKIUS LLP / GOOGLE
2 PALO ALTO SQUARE
3000 EL CAMINO REAL, SUITE 700
PALO ALTO, CA 94306

POA ACCEPTANCE LETTER

OC000000073773232

Date Mailed: 03/05/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/26/2015.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/lqchau/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/839,828	03/15/2013	Jeffrey P. Mathews	RVLV.0101

CONFIRMATION NO. 7021

23669
HUFFMAN LAW GROUP, P.C.
7702 Barnes Rd., Ste. 140-46
COLORADO SPRINGS, CO 80922

POWER OF ATTORNEY NOTICE

OC000000073773198

Date Mailed: 03/05/2015

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/26/2015.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/lqchau/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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Sonos v. Google, IPR2023-00806

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/839,828	03/15/2013	2464	564	104248-5041-US	21	3

CONFIRMATION NO. 7021

CORRECTED FILING RECEIPT

82750
MORGAN, LEWIS & BOCKIUS LLP / GOOGLE
2 PALO ALTO SQUARE
3000 EL CAMINO REAL, SUITE 700
PALO ALTO, CA 94306

OC000000073774003

Date Mailed: 03/05/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Jeffrey P. Mathews, Longmont, CO;
Lee R. Taylor, Boulder, CO;

Applicant(s)

GOOGLE INC., MOUNTAIN VIEW, CA

Power of Attorney: The patent practitioners associated with Customer Number 82750

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/622,620 04/11/2012

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

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 04/26/2013
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/839,828**
Projected Publication Date: Not Applicable
Non-Publication Request: No
Early Publication Request: No
** **SMALL ENTITY** **

Sonos Ex 1014, p. 157
Sonos v. Google, IPR2023-00806

Title

APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

Preliminary Class

370

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

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Sonos v. Google, IPR2023-00806

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/839,828	03/15/2013	Jeffrey P. Mathews	104248-5041-US	7021

82750 7590 04/01/2015

MORGAN, LEWIS & BOCKIUS LLP / GOOGLE
2 PALO ALTO SQUARE
3000 EL CAMINO REAL, SUITE 700
PALO ALTO, CA 94306

EXAMINER
MASUR, PAUL H

ART UNIT	PAPER NUMBER
2464	

NOTIFICATION DATE	DELIVERY MODE
04/01/2015	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):

padocketingdepartment@morganlewis.com
vskliba@morganlewis.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	13/839,828	MATHEWS ET AL.	
	Examiner	Art Unit	
	Paul H. Masur	2464	

All participants (applicant, applicant's representative, PTO personnel):

(1) *Paul H. Masur*.

(3) *Jenn Wang*.

(2) *Douglas Crisman*.

(4)_____.

Date of Interview: *27 March 2015*.

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

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

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

Claim(s) discussed: *1*.

Identification of prior art discussed: *Economy et al. (US PG Pub 2013/0026947)*.

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

See Continuation Sheet.

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

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

☒ Attachment

/Paul H. Masur/ Primary Examiner, Art Unit 2464	

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Sonos v. Google, IPR2023-00806

Summary of Record of Interview Requirements

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

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

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

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

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

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

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

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

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

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

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

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

Examiner to Check for Accuracy

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

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments:

On 03/27/2015, the applicant's representatives conducted an interview with the examiner. First, the applicant's representatives gave an overview of the applicant's invention. Subsequently, a proposed amendment to claim 1 was discussed (see attached agenda). The examiner suggested that the claim include amendments that specifically recite a processor that implements the commissioning logic as claimed. This would more clearly define the structural elements of the claim. The applicant's representative thanked the examiner for the suggestion. In regard to the prior art, the examiner noted that paragraph 0072 of the Economy reference (see SSID and SSID password) likely taught the amended features of the claim. The applicant's representative thanked the examiner for the suggestion.

Both parties further discussed potential amendments that may overcome the prior art rejection. The examiner noted that there may be a difference between the cited dimmer switch of Economy and the claimed target device (as defined by the specification). The examiner did note that further study would be needed before a definitive determination could be made. The applicant's representative thanked the examiner for the suggestion.

The examiner would like to thank the applicant's representatives for their time and careful consideration of the matters discussed.

ML Ref.: 104284-5041-US Via : 1 571 270-8297

PTOL-413A (09-08)
Approved for use through 10/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Applicant Initiated Interview Request Form

Application No.: 13/839,828 First Named Applicant: Jeffrey P. Mathews

Examiner: MASUR, PAUL H Art Unit: 2464 Status of Application: OA

Tentative Participants:

(1) MASUR, PAUL H (2) Douglas J. Crisman #41,796

(3) Jenn Wang (4)

Proposed Date of Interview: March 27, 2015 **Proposed Time:** 1:00 PM (EST) **AM/PM**

Type of Interview Requested:

(1) ☑ **Telephonic** (2) ☐ **Personal** (3) ☐ **Video Conference**

Exhibit To Be Shown or Demonstrated: ☐ **YES** ☑ **NO**

If yes, provide brief description:

Issues To Be Discussed

Issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior Art	Discussed	Agreed	Not Agreed
(1) 102 Rejection		Economy	☐	☐	☐
(2)			☐	☐	☐
(3)			☐	☐	☐
(4)			☐	☐	☐

☑ Continuation Sheet Attached

Brief Description of Argument to be Presented:

please see attached interview agenda.

An interview was conduction on the above-identified application on _____.

NOTE: This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP § 713.01).

This application will not be delayed from issue because of applicant's failure to submit a written record of this interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible.

Applicant/Applicant's Representative Signature

Douglas J. Crisman #41,796

Typed/Printed Name of Applicant or Representative

41,796

Registration Number, if applicable

Examiner/SPE Signature

This collection of information is required by 37 CFR 1.133. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Sonos Ex 1014, p. 164
Sonos v. Google, IPR2023-00806

(571)270-8297 Electronically filed **

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Jeffrey P. Mathews et al.	Confirmation No.:	7021
Serial No.:	13/839,828	Art Unit:	2464
Filed:	March 15, 2013	Examiner:	Masur, Paul H.
For:	*APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES*	Attorney Docket No.:	104248-5041-US

PROPOSED AMENDMENT

1. (Currently Amended) An apparatus for commissioning a target device onto a wireless local area network (WLAN), comprising:

~~a smart wireless device, comprising:~~

commissioning logic, configured to format and direct transmission of one or more WLAN configuration packets that convey WLAN configuration data including at least a network name and a password of the WLAN; and

a transducer, coupled to said commissioning logic, configured to transmit said one or more WLAN configuration packets to the target device over ~~said~~ a wireless transmission path allowing signal transmission from the transducer to the target device~~, wherein said transducer is an existing component of said smart wireless device~~.

PAGE 2/2 * RCVD AT 3/24/2015 3:41:56 PM [Eastern Daylight Time] * SVR:W-PTOFAX-002/32 * DNIS:2708297 * CSID: * DURATION (mm-ss):00-48
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Electronically filed April 15, 2015

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Jeffrey P. Mathews et al.	Confirmation No.:	7021
Serial No.:	13/839,828	Art Unit:	2464
Filed:	March 15, 2013	Examiner:	Masur, Paul H.
For:	*APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES*	Attorney Docket No.:	104248-5041-US

RESPONSE TO NON-FINAL OFFICE ACTION

AND SUBSTANCE OF INTERVIEW

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

Sir:

The enclosed Amendment is in response to the Office Action dated January 15, 2015 for the above identified patent application.

The Commissioner is hereby authorized to charge any required fee(s) to Morgan, Lewis & Bockius LLP Deposit Account No. 50-0310 (order no. 104248-5041-US).

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IN THE CLAIMS:

Rewrite the pending claims as follows:

1. (Currently Amended) ~~An apparatus~~ A smart wireless device for commissioning a target device onto a wireless local area network (WLAN), the smart wireless device including a first processor and a first memory storing programs for execution by the first processor, comprising:

~~a smart wireless device, comprising:~~

(1) commissioning logic, configured to:

display a user interface for commissioning the target device, wherein the target device is disposed in proximity to the smart wireless device, and includes a second processor and a second memory storing programs for execution by the second processor, the programs stored in the second memory further including program instructions that direct the second processor to decode and process WLAN configuration packets for commissioning the target device itself onto the WLAN;

format and direct transmission of one or more WLAN configuration packets that convey WLAN configuration data associated with the WLAN according to a predetermined data format, wherein the WLAN is accessible to the smart wireless device,

receive, via the WLAN, a contact from the target device indicating that the target device has successfully entered the WLAN, and

in response to the received contact from the target device, continue to commission the target device by communicating via the WLAN device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device; and

(2) a transducer, coupled to said commissioning logic, configured to transmit said one or more WLAN configuration packets to the target device over ~~said~~ a wireless transmission path allowing signal transmission from the transducer to the target device independently of the WLAN, wherein the target device uses the user interface of the smart wireless device for device commissioning ~~wherein said transducer is an existing component of said smart wireless device~~.

2. (Currently Amended) The ~~apparatus~~ smart wireless device as recited in claim 1, wherein said smart wireless device comprises a smartphone.

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3. (Currently Amended) The ~~apparatus~~ smart wireless device as recited in claim 1, wherein said smart wireless device comprises a tablet computer.

4. (Currently Amended) The ~~apparatus~~ smart wireless device as recited in claim 1, wherein said commissioning logic comprises a sequence of program instructions in an application directed towards commissioning the target device onto the WLAN.

5. (Currently Amended) The ~~apparatus~~ smart wireless device as recited in claim 1, wherein said transducer comprises a camera flash, and wherein said transmission path comprises an optical transmission path, and wherein said camera flash is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to an optical sensor on the target device.

6. (Currently Amended) The ~~apparatus~~ smart wireless device as recited in claim 1, wherein said transducer comprises a backlit display, and wherein said transmission path comprises an optical transmission path, and wherein said backlit display is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to an optical sensor on the target device.

7. (Currently Amended) The ~~apparatus~~ smart wireless device as recited in claim 1, wherein said transducer comprises an audio speaker, and wherein said transmission path comprises an audio transmission path, and wherein said audio speaker is modulated according to said commissioning logic to transmit said one or more WLAN configuration packets over said audio transmission path to an audio sensor on the target device.

8. (Currently Amended) ~~An apparatus~~ A system for wireless local area network (WLAN) device commissioning, comprising:

a smart wireless device, including a first processor and a first memory storing programs for execution by the first processor, the smart wireless device further including ~~comprising~~:

(1) first commissioning logic[[,]] that is configured to:

display a user interface for commissioning the target device,

format and direct transmission of one or more WLAN configuration packets[[;]] that convey WLAN configuration data associated with the WLAN according to a predetermined data format, wherein the WLAN is accessible to the smart wireless device,

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receive, via the WLAN, a contact from the target device indicating that the target device has successfully entered the WLAN, and

in response to the received contact from the target device, continue to commission the target device by communicating, via the WLAN, device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device; and

(2) a first transducer[[,]] that is coupled to said first commissioning logic[[,]] and configured to transmit said one or more WLAN configuration packets to the target device over ~~said~~ a signal transmission path allowing signal transmission from the first transducer to the target device independently of the WLAN, wherein said first transducer is an existing component of said smart wireless device; and

a target device[[,]] that is disposed in proximity of the smart wireless device, and includes a second processor and a second memory storing programs for execution by the second processor, the target device further including ~~comprising~~:

a second transducer[[,]] that is configured to receive said one or more WLAN configuration packets;

second commissioning logic[[,]] that is coupled to said second transducer[[,]] and configured to decode and process said one or more WLAN configuration packets to recover WLAN configuration data for commissioning the target device itself onto the WLAN; and

a wireless radio[[,]] that is operatively coupled to said commissioning logic[[,]] and configured to employ said WLAN configuration data to enable said target device to join a WLAN.

9. (Currently Amended) The ~~apparatus~~ system as recited in claim 8, wherein said smart wireless device comprises a smartphone.

10. (Currently Amended) The ~~apparatus~~ system as recited in claim 8, wherein said smart wireless device comprises a tablet computer.

11. (Currently Amended) The ~~apparatus~~ system as recited in claim 8, wherein said first and second commissioning logics comprise a sequence of program instructions in one or more applications directed towards commissioning said target device onto said WLAN.

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12. (Currently Amended) The ~~apparatus~~ system as recited in claim 8, wherein said first transducer comprises a camera flash, and wherein said second transducer comprises an optical sensor, and wherein said transmission path comprises an optical transmission path, and wherein said camera flash is modulated according to said first commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to said optical sensor.

13. (Currently Amended) The ~~apparatus~~ system as recited in claim 8, wherein said first transducer comprises a backlit display, and wherein said second transducer comprises an optical sensor, and wherein said transmission path comprises an optical transmission path, and wherein said backlit display is modulated according to said first commissioning logic to transmit said one or more WLAN configuration packets over said optical transmission path to said optical sensor.

14. (Currently Amended) The ~~apparatus~~ system as recited in claim 8, wherein said first transducer comprises an audio speaker, and wherein said second transducer comprises an audio sensor, and wherein said transmission path comprises an audio transmission path, and wherein said audio speaker is modulated according to said first commissioning logic to transmit said one or more WLAN configuration packets over said audio transmission path to said audio sensor.

15. (Currently Amended) A method for wireless local area network (WLAN) device commissioning, comprising:

at a smart wireless device including a display, a first processor and a first memory storing programs for execution by the first processor, while displaying a user interface on the display:

executing a first application ~~on a smart wireless device~~ to format ~~and direct transmission of~~ one or more WLAN packets associated with a WLAN that is accessible to the smart wireless device according to a predetermined data format, the one or more WLAN packets including WLAN configuration data associated with the WLAN;

providing the WLAN configuration data of the WLAN to a target device disposed in proximity of the smart wireless device, including transmitting by [[via]] a first transducer of the smart wireless device~~, transmitting~~ the one or more WLAN configuration packets over an alternative wireless transmission path to a target device, wherein the target device includes a second processor and a second memory storing programs for execution by

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the second processor, and uses the user interface of the smart wireless device for device commissioning, the programs stored in the second memory further including program instructions that direct the second processor to decode and process WLAN configuration packets for commissioning the target device itself onto the WLAN, and wherein the alternative wireless transmission path allows signal transmission from the transducer to the target device independently of the WLAN~~, wherein the first transducer is an existing component of the smart wireless device~~;

~~via a second transducer disposed within a target device, receiving the one or more WLAN configuration packets;~~

causing the target device to execute ~~executing~~ a second application on the target device to decode and process the one or more WLAN configuration packets to recover the WLAN configuration data associated with the WLAN,~~; and~~ wherein ~~via~~ a wireless radio disposed within the target device is configured to employ ~~, employing~~ the recovered WLAN configuration data to enable the target device to join [[a]] the WLAN;

receiving, via the WLAN, a contact from the target device indicating that the target device has successfully entered the WLAN; and

in response to the received contact from the target device, continuing to commission the target device by communicating, via the WLAN, device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device.

16. (Original) The method as recited in claim 15, wherein the smart wireless device comprises a smartphone.

17. (Original) The method as recited in claim 15, wherein the smart wireless device comprises a tablet computer.

18. (Original) The method as recited in claim 15, wherein the first and second applications comprise first and second sequences of program instructions directed towards commissioning the target device onto the WLAN.

19. (Original) The method as recited in claim 15, wherein the first transducer comprises a camera flash, and wherein the second transducer comprises an optical sensor, and wherein the transmission path comprises an optical transmission path, and wherein the camera flash is

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modulated according to the first application to transmit the one or more WLAN configuration packets over the optical transmission path to the optical sensor.

20. (Original) The method as recited in claim 15, wherein the first transducer comprises a backlit display, and wherein the second transducer comprises an optical sensor, and wherein the transmission path comprises an optical transmission path, and wherein the backlit display is modulated according to the first application to transmit the one or more WLAN configuration packets over the optical transmission path to the optical sensor.

21. (Original) The method as recited in claim 15, wherein the first transducer comprises an audio speaker, and wherein the second transducer comprises an audio sensor, and wherein the transmission path comprises an audio transmission path, and wherein the audio speaker is modulated according to the first application to transmit the one or more WLAN configuration packets over the audio transmission path to the audio sensor.

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REMARKS

This amendment responds to the office action mailed January 15, 2015. In the office action the Examiner:

- objected to claim 4 for containing informalities;
- rejected claims 1-6, 8-13 and 15-20 under 35 U.S.C. 102(e) as anticipated by Economy (US Pub. No. 2013/0026947), which was cited on IDS dated 3/18/2013;
- rejected claims 7, 14 and 21 under 35 U.S.C. 103(a) as being unpatentable over Economy, which was cited on IDS dated 3/18/2013 in view of Covaro (US Pub. No. 2011/0202151).

SUBSTANCE OF INTERVIEW

Applicant thanks Examiners Masur for his comments during telephone interview on March 27, 2015 with Douglas J. Crisman (undersigned) and Jianbai Wang (working under the supervision of Douglas J. Crisman). During the interview, the Examiner and the Applicant's attorney discussed the background of the pending application and the inventions disclosed in the cited references (in particular, Economy). The Examiner suggested that more amendments would be needed to overcome the current rejections in view of the cited references. The claims as presented herein have been amended as discussed.

AMENDMENTS TO THE CLAIMS

Independent claims 1, 8 and 15 have been amended to recite more limitations for the purposes of overcoming the cited references. Support for these claim amendments is found in at least Paragraphs 0008, 0054, 0055 and 0062 of the application as published. *See* U.S. Patent Publication 2013/0272223 of this application. No new matter has been added.

Claims 2-7 and 9-14 have been amended to be consistent with the amendments to their associated independent claims. No new matter has been added.

The Examiner is respectfully requested to enter these amendments.

With respect to all amendments, the Applicant has not dedicated or abandoned any unclaimed subject matter, and reserves the right to resubmit any previously pending claims or similar claims in a continuation application. Moreover, the Applicant has not acquiesced to any characterizations of the invention, nor any rejections or objections of the claims, made by the Examiner.

After entry of this amendment, the pending claims are: claims 1-21.

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OBJECTION TO CLAIM 4

I. **OBJECTION OF CLAIM 1 BECAUSE OF INFORMALITIES**

In the Office Action, the Examiner objected to claim 4 for its recitation of "a application." The Applicant respectfully submits that claim 4 has been amended to recite "an application" in place of "a application."

REMARKS CONCERNING REJECTIONS UNDER 35 U.S.C. 102

II. **REJECTION OF CLAIMS 1-6, 8-13 AND 15-20 UNDER 35 U.S.C. 102(E) AS ANTICIPATED BY ECONOMY**

Independent claim 1, as currently amended, recites:

> A smart wireless device for commissioning a target device onto a wireless local area network (WLAN), the smart wireless device including a first processor and a first memory storing programs for execution by the first processor, comprising:
>
> (1) commissioning logic, configured to:
>
> display a user interface for commissioning the target device, wherein **the target device** is disposed in proximity of the smart wireless device, and **includes a second processor and a second memory storing programs for execution by the second processor, the programs stored in the second memory further including program instructions that direct the second processor to decode and process WLAN configuration packets for commissioning the target device itself onto the WLAN**;
>
> format and direct transmission of one or more WLAN configuration packets that convey WLAN configuration data associated with the WLAN according to a predetermined data format, wherein the WLAN is accessible to the smart wireless device,
>
> receive, via the WLAN, a contact from the target device indicating that the target device has successfully entered the WLAN, and
>
> **in response to the received contact from the target device, continue to commission the target device by communicating, via the WLAN, device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device**; and
>
> (2) a transducer, coupled to said commissioning logic, configured to transmit said one or more WLAN configuration

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packets to the target device over ~~said~~ a wireless transmission path allowing signal transmission from the transducer to the target device independently of the WLAN, wherein the target device uses the user interface of the smart wireless device for device commissioning.

(Emphasis added.)

The Applicant respectfully submits that claim 1 has been amended to recite the above highlighted claim feature and that Economy does not teach at least these two newly added claim features.

A. Economy does not teach the aspect of "the target device ... includes a second processor and a second memory storing programs for execution by the second processor, the programs stored in the second memory further including program instructions that direct the second processor to decode and process WLAN configuration packets for commissioning the target device itself onto the WLAN" of claim 1 as amended.

Economy teaches that "the dimmer switch 110 may be coupled in series electrical connection between an AC power source 102 and a lighting load 104 for controlling the amount of power delivered to the lighting load." *See* Economy, para. 0038. Economy also teaches that "the wireless control device may transmit commands for controlling the intensity of the lighting load 104 or programming the dimmer switch 110." *Id.*, para. 0045. However, there is no teaching in Economy that "the dimmer switch 110" includes a microcontroller or instructions that direct a microcontroller to "decode and process WLAN configuration packets" as claimed.

Thus, Economy does not teach the aspect of "the target device ... includes a second processor and a second memory storing programs for execution by the second processor, the programs stored in the second memory further including program instructions that direct the second processor to decode and process WLAN configuration packets for commissioning the target device itself onto the WLAN" of claim 1 as amended.

B. Economy does not teach the aspect of "in response to the received contact from the target device, continue to commission the target device by communicating, via the WLAN, device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device" of claim 1 as amended.

Economy teaches that "the wireless control device 120 may transmit and receive the RF signals 106 to and from the dimmer switch 110 to control the lighting load 104." *Id.*, para.

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0072. However, there is no teaching in Economy that "the RF signals 106" include "an Internet Protocol address, proxy, and gateway configuration of the smart wireless device" as claimed. Thus, Economy fails to teach at least the aspect of "in response to the received contact from the target device, continue to commission the target device by communicating, via the WLAN, device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device" as recited in claim 1 as amended.

C. Conclusion

In summary, Economy fails to teach at least the aspects of "the target device ... includes a second processor and a second memory storing programs for execution by the second processor, the programs stored in the second memory further including program instructions that direct the second processor to decode and process WLAN configuration packets for commissioning the target device itself onto the WLAN" and "in response to the received contact from the target device, continue to commission the target device by communicating, via the WLAN, device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device" of claim 1 as amended. Thus, Economy does not teach all claim limitations of claim 1 as amended, and there is no prima facie case of anticipation for claim 1 as amended.

Independent claims 8 and 15 as amended include analogous limitations to those discussed with reference to claim 1 as amended, thus there is no prima facie case of anticipation for amended claims 8 and 15, for at least reasons analogous to those explained above with respect to claim 1 as amended.

Dependent claims 2-6, 9-13, and 16-20 depend from and include each and every limitation of their associated independent claims. Thus, there is no prima facie case of obviousness for dependent claims 2-6, 9-13, and 16-20 for at least the same reasons discussed with respect to their associated independent claims.

Accordingly, the Applicant respectfully requests that the rejections under 35 U.S.C. 102(b) be withdrawn for independent claims 1, 8 and 15, and their dependent claims, claims 2-6, 9-13, and 16-20.

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REMARKS CONCERNING REJECTIONS UNDER 35 U.S.C. 103

III. **REJECTED CLAIMS 7, 14 AND 21 UNDER 35 U.S.C. 103(A) AS BEING UNPATENTABLE OVER ECONOMY IN VIEW OF COVARO**

Claims 7, 14 and 21 depend from and include each and every limitation of independent claims 1, 8, and 15 as amended, respectively. Covaro is not cited for, nor does it teach or suggest, the missing claim limitations of amended claims 1 that Economy fails to teach. The Applicant respectfully submits that claims 7, 14 and 21 are patentable for at least the same reasons as claim 1 as amended.

The Applicant respectfully requests that the rejection of claims 7, 14 and 21 under 35 U.S.C. 103(a) be withdrawn and that these claims be allowed.

CONCLUSION

By responding in the foregoing remarks only to particular positions asserted by the Examiner, the Applicants do not necessarily acquiesce in other positions that have not been explicitly addressed. In addition, the Applicants' arguments for the patentability of a claim should not be understood as implying that no other reasons for the patentability of that claim exist.

In light of the above amendments and remarks, the Applicants respectfully request that the Examiner reconsider this application with a view towards allowance. The Examiner is invited to call the undersigned attorney at (650) 843-4000, if a telephone call could help resolve any remaining items.

Respectfully submitted,

Date: April 15, 2015

39,951
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Electronic Acknowledgement Receipt

EFS ID:	22075824
Application Number:	13839828
International Application Number:	
Confirmation Number:	7021
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Customer Number:	82750
Filer:	Douglas James Crisman/Linda Quintana
Filer Authorized By:	Douglas James Crisman
Attorney Docket Number:	104248-5041-US
Receipt Date:	15-APR-2015
Filing Date:	15-MAR-2013
Time Stamp:	19:43:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		GP-5778-00-US_ResponsetoNFOA_104248-5041-US.pdf	641730 b04c3ba21c67aae6e60215be81dd32a667457efd	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	7
	Applicant Arguments/Remarks Made in an Amendment	8	12
Warnings:			
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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/839,828	Filing Date 03/15/2013	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

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

APPLICATION AS AMENDED – PART II

AMENDMENT **04/15/2015**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 21	Minus	** 21	= 0	X $40 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

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

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

LIE
/BRENDA TURNER/

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82750 7590 07/20/2015

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2 PALO ALTO SQUARE
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EXAMINER
MASUR, PAUL H

ART UNIT	PAPER NUMBER
2464	

DATE MAILED: 07/20/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/839,828	03/15/2013	Jeffrey P. Mathews	104248-5041-US	7021

TITLE OF INVENTION: APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	10/20/2015

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (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)

82750 7590 07/20/2015
MORGAN, LEWIS & BOCKIUS LLP / GOOGLE
2 PALO ALTO SQUARE
3000 EL CAMINO REAL, SUITE 700
PALO ALTO, CA 94306

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/839,828	03/15/2013	Jeffrey P. Mathews	104248-5041-US	7021

TITLE OF INVENTION: APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	10/20/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
MASUR, PAUL H	2464	370-329000

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 03-02 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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(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. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29 — 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.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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. _____

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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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/839,828	03/15/2013	Jeffrey P. Mathews	104248-5041-US	7021

82750 7590 07/20/2015

MORGAN, LEWIS & BOCKIUS LLP / GOOGLE
2 PALO ALTO SQUARE
3000 EL CAMINO REAL, SUITE 700
PALO ALTO, CA 94306

EXAMINER	
MASUR, PAUL H	

ART UNIT	PAPER NUMBER
2464	

DATE MAILED: 07/20/2015

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.

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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 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 13/839,828	Applicant(s) MATHEWS ET AL.	
	Examiner Paul H. Masur	Art Unit 2464	AIA (First Inventor to File) 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 *04/15/2015*.
   ☐ 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 *1-21*. 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 *07/08/2015* .
5. ☒ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Paul H. Masur/
Primary Examiner, Art Unit 2464

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EXAMINER'S AMENDMENT

1. **An examiner's amendment to the record appears below.** Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Douglas Crisman on 07/13/2015.

2. The application has been amended as follows:

3. Claim 15 has been replaced with

-- A method for wireless local area network (WLAN) device commissioning for use at a smart wireless device including a display, a first processor and a first memory storing programs for execution by the first processor, comprising:

displaying a user interface on the display;

executing a first application to format one or more WLAN packets associated with a WLAN that is accessible to the smart wireless device according to a predetermined data format, the one or more WLAN packets including WLAN configuration data associated with the WLAN;

providing the WLAN configuration data of the WLAN to a target device disposed in proximity of the smart wireless device, including transmitting by a first transducer of the smart wireless device the one or more WLAN configuration packets over an alternative wireless transmission path to a target device, wherein the target device includes a second processor and a second memory storing

programs for execution by the second processor, and uses the user interface of the smart wireless device for device commissioning, the programs stored in the second memory further including program instructions that direct the second processor to decode and process WLAN configuration packets for commissioning the target device itself onto the WLAN, and wherein the alternative wireless transmission path allows signal transmission from the transducer to the target device independently of the WLAN;

causing the target device to execute a second application on the target device to decode and process the one or more WLAN configuration packets to recover the WLAN configuration data associated with the WLAN, wherein a wireless radio disposed within the target device is configured to employ the recovered WLAN configuration data to enable the target device to join the WLAN;

receiving, via the WLAN, a contact from the target device indicating that the target device has successfully entered the WLAN; and

in response to the received contact from the target device, continuing to commission the target device by communicating, via the WLAN, device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device. --

REASONS FOR ALLOWANCE

4. Claims 1-21 are pending.

Notice of Pre-AIA or AIA Status

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

Response to Arguments

6. **Applicant's arguments, see page 9, filed 04/15/2015, with respect to claim objections have been fully considered and are persuasive.** The objection of claim 4 has been withdrawn.

7. **Applicant's arguments, see pages 9-11, filed 04/15/2015, with respect to 35 U.S.C. §§ 102, 103 have been fully considered and are persuasive.** The rejection of claims 1-21 has been withdrawn.

Allowable Subject Matter

8. Claims 1-21 are allowed.

9. Examiner notes that the cited limitation is novel over the prior art in view of the entirety of the claim, not just the limitation presented alone.

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

11. **As per claims 1-7,** the cited prior art, either alone or in combination, fails to teach the claimed features of:

format and direct transmission of one or more WLAN configuration packets that convey WLAN configuration data associated with the WLAN according to a predetermined data format, wherein the WLAN is accessible to the smart wireless device,

receive, via the WLAN, a contact from the target device indicating that the target device has successfully entered the WLAN, and

in response to the received contact from the target device, continue to commission the target device by communicating via the WLAN device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device.

12. **As per claims 8-14,** the cited prior art, either alone or in combination, fails to teach the claimed features of:

format and direct transmission of one or more WLAN configuration packets that convey WLAN configuration data associated with the WLAN according to a predetermined data format, wherein the WLAN is accessible to the smart wireless device,

receive, via the WLAN, a contact from the target device indicating that the target device has successfully entered the WLAN, and

in response to the received contact from the target device, continue to commission the target device by communicating, via the WLAN, device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device.

13. **As per claims 15-21,** the cited prior art, either alone or in combination, fails to teach the claimed features of:

providing the WLAN configuration data of the WLAN to a target device disposed in proximity of the smart wireless device, including transmitting by a first transducer of

the smart wireless device transmitting the one or more WLAN configuration packets over an alternative wireless transmission path to a target device…

receiving, via the WLAN, a contact from the target device indicating that the target device has successfully entered the WLAN; and

in response to the received contact from the target device, continuing to commission the target device by communicating, via the WLAN, device configuration data to the target device, the device configuration data including an Internet Protocol address, proxy, and gateway configuration of the smart wireless device.

Conclusion

14. **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."

15. **Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul H. Masur whose telephone number is (571)270-7297.** The examiner can normally be reached on Monday through Friday from 7:30 AM to 5 PM (Eastern Time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. 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.

Date: 07/13/2015
/Paul H. Masur/
Primary Examiner, Art Unit 2464

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	13/839,828	MATHEWS ET AL.	
	Examiner	Art Unit	
	Paul H. Masur	2464	

All participants (applicant, applicant's representative, PTO personnel):

(1) *Paul H. Masur*. (3)_____.

(2) *Douglas Crisman*. (4)_____.

Date of Interview: *08 July 2015*.

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

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

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

Claim(s) discussed: *15*.

Identification of prior art discussed: *N/A*.

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

On 07/08/2015, the examiner contacted the applicant's representative to propose an examiner's amendment that would place the application in condition for allowance. The examiner proposed that limitation 1 of claim 15 (filed 04/15/2015) be moved into the preamble of the claim. The applicant's representative requested time to consider the proposal and to confer with their client. The examiner agreed. Later that day, further discussion occurred between the applicant's representative and examiner. On 07/13/2015, final language for the examiner's amendment was agreed upon by both parties. The agreed upon amendment to claim 15 is included in the accompanying examiner's amendment.

The examiner would like to thank the applicant's representative for their time and careful consideration of the matters discussed. .

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

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

☐ Attachment

/Paul H. Masur/ Primary Examiner, Art Unit 2464	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13839828	MATHEWS ET AL.
	Examiner	Art Unit
	PAUL H MASUR	2464

CPC- SEARCHED		
Symbol	Date	Examiner
H04W76/02	1/6/2015	/P.H.M./
H04W84/12,18	1/6/2015	/P.H.M./
H04W12/06	1/6/2015	/P.H.M./
H05B37/02,0245,0272	1/9/2015	/P.H.M./
ABOVE - UPDATED	7/8/2015	/P.H.M./

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search	1/5/2015	/P.H.M./
Considered IDS documents	1/5/2015	/P.H.M./
Began text and classification search	1/6/2015	/P.H.M./
IP.com search (see attached)	1/6/2015	/P.H.M./
NPL Search (Google Scholar)	1/6/2015	/P.H.M./
Consulted related application 13/538,615	1/7/2015	/P.H.M./
Checked Common Citation Document (CCD)	1/7/2015	/P.H.M./
Completed text and classification search	1/9/2015	/P.H.M./
Databases Used: USPAT, US-PGPUB, EPO, JPO, DERWENT, IBM_TDB	1/9/2015	/P.H.M./
Considered applicant's remarks and submitted claim amendments	7/8/2015	/P.H.M./
Updated inventor name search	7/8/2015	/P.H.M./
Updated text and classification search	7/8/2015	/P.H.M./
Consulted related application 13/538,615 and 13/622,936	7/8/2015	/P.H.M./
Interference search (see search history)	7/8/2015	/P.H.M./
Examiner initiated interview (see attached PTO-413B)	7/8/2015	/P.H.M./

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
H04W	72/ALL	7/8/2015	/P.H.M./

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Sonos v. Google, IPR2023-00806

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13839828	MATHEWS ET AL.
	Examiner	**Art Unit**
	PAUL H MASUR	2464

CPC						
Symbol					**Type**	**Version**
H04W		76	/	02	F	2013-01-01
H04W		84	/	12	A	2013-01-01
H04W		84	/	18	A	2013-01-01
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CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
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			/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	21	
/PAUL H MASUR/ Primary Examiner.Art Unit 2464	07/08/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13839828	MATHEWS ET AL.
	Examiner	**Art Unit**
	PAUL H MASUR	2464

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
		H	0	4	W	76 / 02 (2009.01.01)						
CROSS REFERENCE(S)												
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	21	
/PAUL H MASUR/ Primary Examiner.Art Unit 2464	07/08/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13839828	MATHEWS ET AL.
	Examiner	**Art Unit**
	PAUL H MASUR	2464

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

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		17												
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	12														
	13														
	14														
	15														
	16														

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 21	
/PAUL H MASUR/ Primary Examiner.Art Unit 2464 (Primary Examiner)	07/08/2015 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S146	6451	(wlan (wireless near2 lan) (wireless near2 local near2 area near2 network)).clm.	USPAT; UPAD	OR	ON	2015/07/08 11:03
S147	35921	((configur$6 control$4) near2 (packet frame pdu)).clm.	USPAT; UPAD	OR	ON	2015/07/08 11:03
S148	347	S146 near2 (configur$6).clm.	USPAT; UPAD	OR	ON	2015/07/08 11:04
S149	32	S147 and S148	USPAT; UPAD	OR	ON	2015/07/08 11:04
S150	16377	((ip (internet near2 protocol)) near2 address).clm.	USPAT; UPAD	OR	ON	2015/07/08 11:07
S151	9016	(proxy).clm.	USPAT; UPAD	OR	ON	2015/07/08 11:07
S152	2112	(gateway near2 configur$6).clm.	USPAT; UPAD	OR	ON	2015/07/08 11:07
S153	0	S149 and S150 and S151 and S152	USPAT; UPAD	OR	ON	2015/07/08 11:07
S154	160041	(commission$4 setup set?up (set$4 near2 up) accredit$5 assign$5).clm.	USPAT; UPAD	OR	ON	2015/07/08 11:12
S155	198	S146 near10 S154	USPAT; UPAD	OR	ON	2015/07/08 11:13
S156	23	S148 and S155	USPAT; UPAD	OR	ON	2015/07/08 11:13
S157	2	S156 and S147	USPAT; UPAD	OR	ON	2015/07/08 11:13

7/ 8/ 2015 12:45:16 PM
C:\ Users\ pmasur\ Documents\ 2015\ Quarter4\ Amend\ 13_839828\ 13_839828.wsp

Sonos Ex 1014, p. 198
Sonos v. Google, IPR2023-00806

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S80	2	US-20130076491-$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 09:05
S81	2	"20080143487"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 09:07
S82	3	WO-2011097116-$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 09:07
S83	2	US-20130272223-$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 09:08
S84	1	"13538615"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 09:12
S85	22	("20130002398" | "20070202807" | "20080143487" | "20090298555" | "20100318693" | "20060258289" | "20100231407" | "20100318693" | "20080090520" | "7250695" | "20110210831").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 09:13
S86	49	((Jeffrey) near2 (Mathews)).INV.	US-PGPUB; USPAT	OR	ON	2015/07/08 10:11
S87	74	((Lee) near2 (Taylor)).INV.	US-PGPUB; USPAT	OR	ON	2015/07/08 10:11
S88	121	S86 S87	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:11
S89	1	S88 and (wlan (wireless near2 lan) (wireless near2 local near2 area near2 network)).clm.	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2015/07/08 10:12

			DERWENT; IBM_TDB			
S90	369360	wlan (wireless near2 (lan (local near2 area near2 network))) "802.11"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:12
S91	78	S90 near2 (configur$6 setup) near2 packet	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:12
S92	331	commiss$5 near2 wireless	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:12
S93	142	S92 and S90	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:12
S94	37	S93 and sensor	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:12
S95	18	S94 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:12
S96	44	S91 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:13
S97	37341	wps (wifi near2 protect$4 near2 secur$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:14
S98	3	S97 same audio same optic$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:14
S99	331	commiss$5 near2 wireless	US-PGPUB; USPAT; FPRS; EPO; JPO;			

			DERWENT; IBM_TDB			
S100	2	S97 and S99	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:14
S101	3339	(audio near2 transmi$7) and (optic$3 near2 transmi$7)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:15
S102	48	S97 and S101	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:15
S103	6	S102 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:15
S104	28578	(audio with transmi$7) and (optic$3 with transmi$7)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:15
S105	4059	wps (wifi near2 protect$4 near2 secur$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:15
S106	98	S104 and S105	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:15
S107	5	S106 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:15
S108	843	S105 and sensor	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:15
S109	366	S108 and audio and optic$3	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2015/07/08 10:15

			DERWENT; IBM_TDB			
S110	4	S109 and (configur$6 setup) near2 packet	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:15
S111	4082	wps (wifi near2 protect$4 near2 setup)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:16
S112	97	S104 and S111	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:16
S113	5	S112 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:16
S114	30034	H04W76/02.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:16
S115	92	S111 and S114	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:16
S116	23	S115 and audio and optic$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:16
S117	3	S116 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:16
S118	58322	H04W84/12,18.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:16
S119	40658	H04W12/06.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	OFF	2015/07/08 10:16

			DERWENT; IBM_TDB			
S120	323	S111 and S118	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:16
S121	234	S111 and S119	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:16
S122	475	S120 S121	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:16
S123	114	S122 and audio and optic$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:16
S124	25	S123 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:16
S125	4300	wps ((wifi wi?fi) near2 protect$4 near2 setup)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:17
S126	363	S118 and S125	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:17
S127	263	S119 and S125	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:17
S128	537	S126 S127	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:17
S129	124	S128 and audio and optic$3	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2015/07/08 10:17

			DERWENT; IBM_TDB			
S130	26	S129 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:17
S131	109027	(audio near2 transmi$7)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:17
S132	369360	wlan (wireless near2 (lan (local near2 area near2 network))) "802.11"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:17
S133	15993	H05B37/02,0245,0272.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:17
S134	18	S133 and S131 and S132	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:17
S135	7	S134 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:17
S136	202363	(audio near2 (transmi$7 control$4 configur$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:17
S137	44	S133 and S132 and S136	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:17
S138	14	S137 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:17
S139	6278	H05B37/0272.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2015/07/08 10:18

			DERWENT; IBM_TDB			
S140	3512	S139 and (@pd<"20120411" or @ad<"20031230" or @prad<"20031230" or @rlad<"20031230" or @ptad<"20031230")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:18
S141	145	S140 and S132	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:18
S142	5643308	wtru ue ms mn mt ss (mobile near2 (node terminal station subscrib$3) (wireless near2 transmi$7 near2 unit) (subscrib$3 near2 station) (user near2 equipment)) ((cell$5 smart) near2 phone) (wireless near2 (unit device terminal))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:18
S143	97	S141 and S142	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:18
S144	29	S143 and (audio speaker)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/08 10:18
S145	14	(S132 near2 packet) with (speaker)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/08 10:18

7/ 8/ 2015 12:44:48 PM
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13839828	MATHEWS ET AL.
	Examiner	Art Unit
	PAUL H MASUR	2464

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

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

CLAIM		DATE								
Final	Original	01/09/2015	07/08/2015							
	1	✓	=							
	2	✓	=							
	3	✓	=							
	4	✓	=							
	5	✓	=							
	6	✓	=							
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	19	✓	=							
	20	✓	=							
	21	✓	=							

Sonos Ex 1014, p. 206
Sonos v. Google, IPR2023-00806

PART B - FEE(S) TRANSMITTAL

Electronically filed October 20, 2015

Complete and send this form with applicable fee(s), to: Mail
Mail Stop ISSUE FEE
Commissioner of Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (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, advanced 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

MORGAN, LEWIS & BOCKIUS LLP
2 Palo Alto Square
3000 El Camino Real, Suite 700
Palo Alto, CA 94306

Note: A certificate of mailing below 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.

Certificate of Mailing

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTY'S DOCKET NO.	CONFIRMATION NO.
13/839,828	03/15/2013	Jeffrey P. Mathews	104248-5041-US	7021

TITLE OF INVENTION **APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES**

APPLN. TYPE	ENTITY STATUS	ISSUE FEE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$960	10/20/2015

EXAMINER	ART UNIT	CLASS-SUB CLASS
MASUR, PAUL H.	2464	370-329000

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) 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. **Morgan, Lewis & Bockius LLP**
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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: GOOGLE INC.

(B) RESIDENCE: (CITY and STATE OR COUNTRY) MOUNTAIN VIEW, CA

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

4a. The following fee(s) are submitted:

☒ Issue Fee

☐ Advanced Order - # of Copies _____

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

☐ A check in the amount of the fee(s) enclosed

☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Director is hereby authorized to charge the required fee(s), or credit any overpayment, to Deposit Account Number 50-0310 (order no. 104248-5041-US).

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

☐ a. Applicant certifying micro entity status. See 37 CFR 1.29.
NOTE: Absent a valid certification of Micro Entity (see form PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

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

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

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the Patent and Trademark Office.

Authorized Signature _____ Date: 10/20/2015

Printed Name: Douglas J. Crisman Registration No. 39,951

Electronic Patent Application Fee Transmittal

Application Number:	13839828
Filing Date:	15-Mar-2013
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Filer:	Douglas James Crisman/Linda Quintana
Attorney Docket Number:	104248-5041-US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	1501	1	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**960**

Electronic Acknowledgement Receipt

EFS ID:	23842513
Application Number:	13839828
International Application Number:	
Confirmation Number:	7021
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Customer Number:	82750
Filer:	Douglas James Crisman/Linda Quintana
Filer Authorized By:	Douglas James Crisman
Attorney Docket Number:	104248-5041-US
Receipt Date:	20-OCT-2015
Filing Date:	15-MAR-2013
Time Stamp:	19:51:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$960
RAM confirmation Number	5802
Deposit Account	500310
Authorized User	CRISMAN, DOUGLAS
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	104248-5041-US_IssueFee.pdf	95966 232530fd9941ea686c44ec3dba76ca37e6080bda	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30954 9104116cea8826f134c3bcb6df480a42981679ce	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	126920		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/839,828	11/24/2015	9198204	104248-5041-US	7021

82750 7590 11/04/2015

MORGAN, LEWIS & BOCKIUS LLP / GOOGLE
2 PALO ALTO SQUARE
3000 EL CAMINO REAL, SUITE 700
PALO ALTO, CA 94306

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 245 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):

Jeffrey P. Mathews, Longmont, CO;
GOOGLE INC., MOUNTAIN VIEW, CA;
Lee R. Taylor, Boulder, CO;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	13/839,828
Filing Date	03-15-2013
First Named Inventor	Jeffrey P. Mathews
Title	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
Art Unit	2464
Examiner Name	MASUR, PAUL H
Attorney Docket Number	577800US

SIGNATURE of Applicant or Patent Practitioner

Signature	/Michael K. Colby/	Date (Optional)	December 7, 2021
Name	Michael K. Colby	Registration Number	45,816
Title (if Applicant is a juristic entity)	Attorney of Record		
Applicant Name (if Applicant is a juristic entity)	Google LLC		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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DocuSign Envelope ID: 04468A20-0AD1-4C60-9A2D-24564ADB3DE5

Document Description: Power of Attorney

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 149118

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Google LLC

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	DocuSigned by: 3EA0E750E3E74B3...	Date (Optional)	12/11/2018
Name	Michael Lee		
Title	Authorized Signatory of Google LLC		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

PTO/AIA/96 (08-12)
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Google LLC

Application No./Patent No.: 9,198,204 Filed/Issue Date: 11-24-2015

Titled: APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES

Google LLC, a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: MATHEWS, JEFFREY P. et al. To: MOBIPLUG NETWORKS INC.

   The document was recorded in the United States Patent and Trademark Office at
   Reel 030020, Frame 0015, or for which a copy thereof is attached.

2. From: MOBIPLUG NETWORKS INC. To: REVOLV INC.

   The document was recorded in the United States Patent and Trademark Office at
   Reel 030364, Frame 0158, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. 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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PTO/AIA/96 (08-12)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

3. From: REVOLV INC. To: NEST LABS, INC.

The document was recorded in the United States Patent and Trademark Office at
Reel 034254, Frame 0874, or for which a copy thereof is attached.

4. From: NEST LABS, INC. To: GOOGLE INC.

The document was recorded in the United States Patent and Trademark Office at
Reel 034266, Frame 0374, or for which a copy thereof is attached.

5. From: GOOGLE INC. To: GOOGLE LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 044334, Frame 0466, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Michael K. Colby/	December 7, 2021
Signature	Date
Michael K. Colby	45,816
Printed or Typed Name	Title or Registration Number

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	44456304
Application Number:	13839828
International Application Number:	
Confirmation Number:	7021
Title of Invention:	APPARATUS AND METHOD FOR SEAMLESS COMMISSIONING OF WIRELESS DEVICES
First Named Inventor/Applicant Name:	Jeffrey P. Mathews
Customer Number:	82750
Filer:	Michael K. Colby/Sophie Ridgeway
Filer Authorized By:	Michael K. Colby
Attorney Docket Number:	104248-5041-US
Receipt Date:	07-DEC-2021
Filing Date:	15-MAR-2013
Time Stamp:	16:32:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	577800USPOA.pdf	319860 cf607087c2fe064f15c3f9964d76853a848b3892	no	2

Warnings:

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	577800US37CFR.pdf	123383 903a84deab2e43ce21b307dc0620bad544af12f8	no	3
Warnings:					
Information:					
			Total Files Size (in bytes):	443243	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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New International Application Filed with the USPTO as a Receiving Office

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United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/839,828	03/15/2013	Jeffrey P. Mathews	577800US

CONFIRMATION NO. 7021

POA ACCEPTANCE LETTER

149118
Colby Nipper / Google
291 East Shore Drive
Suite 200
Eagle, ID 83616

OC00000130386872

Date Mailed: 12/13/2021

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/07/2021.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/dtdinh/

Sonos Ex 1014, p. 220
Sonos v. Google, IPR2023-00806

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/839,828	03/15/2013	Jeffrey P. Mathews	104248-5041-US

CONFIRMATION NO. 7021

POWER OF ATTORNEY NOTICE

82750
Morgan, Lewis & Bockius LLP (PA)(Google)
1400 Page Mill Road
Palo Alto, CA 94304-1124

OC000000130386863

Date Mailed: 12/13/2021

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/07/2021.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/dtdinh/

Sonos Ex 1014, p. 221
Sonos v. Google, IPR2023-00806