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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	81230.156US1
First Inventor	Jonathan Lim
Title	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
Express Mail Label No.	FILED VIA EFS-WEB

APPLICATION ELEMENTS

See *MPEP chapter 600 concerning utility patent application contents.*

1. ☐ **Fee Transmittal Form** (e.g., PTO/SB/17)
   (Submit an original and a duplicate for fee processing)
2. ☐ **Applicant claims small entity status.**
   See 37 CFR 1.27.
3. ☒ **Specification** [*Total Pages* 29]
   Both the claims and abstract must start on a new page
   (For information on the preferred arrangement, see MPEP 608.01(a))
4. ☒ **Drawing(s)** (35 U.S. C. 113) [*Total Sheets* 8]
5. **Oath or Declaration** [*Total Sheets* 1]
   a. ☒ Newly executed (original or copy)
   b. ☐ A copy from a prior application (37 CFR 1.63(d))
   (for continuation/divisional with Box 18 completed)
   i. ☐ DELETION OF INVENTOR(S)
   Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☒ **Application Data Sheet.** See 37 CFR 1.76
7. ☐ **CD-ROM or CD-R** in duplicate, large table or Computer Program *(Appendix)*
   ☐ Landscape Table on CD
8. **Nucleotids and/or Amino Acid Sequence Submission**
   (if applicable, items a. - c. are required)
   a. ☐ Computer Readable Form (CRF)
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ACCOMPANYING APPLICATION PARTS

9. ☒ **Assignment Papers** (cover sheet & document(s))
   Name of Assignee _____
10. ☒ **37 CFR 3.73(b) Statement** *(when there is an assignee)* ☒ **Power of Attorney**
11. ☐ **English Translation Document** *(if applicable)*
12. ☐ **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    ☐ Copies of foreign patent documents, publications, & other information
13. ☐ **Preliminary Amendment**
14. ☐ **Return Receipt Postcard** (MPEP 503)
    (Should be specifically itemized)
15. ☐ **Certified Copy of Priority Document(s)**
    (if foreign priority is claimed)
16. ☐ **Nonpublication Request** under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
17. ☒ Other: electronic Fee Transmittal

18. If a CONTINUING APPLICATION, *check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:*

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Prior application information: Examiner _____ *Art Unit:* _____

19. CORRESPONDENCE ADDRESS

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Address					
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Signature		Date	November 17, 2011
Name (Print/Type)	Gary R. Jarosik	Registration No. (Attorney/Agent)	35,906

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	81230.156US1
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE	

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.

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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.)

Applicant Information:

Applicant 1 Remove

Applicant Authority ◉ Inventor ○ Legal Representative under 35 U.S.C. 117 ○ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jonathan		Lim	

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

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Citizenship under 37 CFR 1.41(b) i: US

Mailing Address of Applicant:

Address 1	11281 Anegada St.		
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City	Cypress	State/Province	CA
Postal Code	90630	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:

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

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

Customer Number	34018		
Email Address	chiipmail@gtlaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE		
Attorney Docket Number	81230.156US1	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	8	Suggested Figure for Publication (if any)	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	81230.156US1
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Title of Invention	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE	

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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Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)

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Application Number	Country [i]	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			○ Yes ◉ No

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	81230.156US1
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE	

If the Assignee is an Organization check here. ☒			
Organization Name	Universal Electronics Inc.		
Mailing Address Information:			
Address 1	6101 Gateway Drive		
Address 2			
City	Cypress	**State/Province**	CA
Country [i]	US	Postal Code	90630-4841
Phone Number		Fax Number	
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Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.					
Signature	/Gary R. Jarosik/			Date (YYYY-MM-DD)	2011-11-17
First Name	Gary R.	Last Name	Jarosik	Registration Number	35906

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SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE

BACKGROUND

This following generally relates to remote control systems and, more particularly, to a system and method for setting up and configuring a controlling device such as a universal remote control to command functions of one or more types of remotely controllable appliances of one or more manufacturers. Exemplary types of appliances include, but are not limited to televisions, AV receivers, cable or satellite set top boxes (STBs), DVD players, digital video recorders (DVRs), thermostats, game consoles, etc.

Manufacturers typically provide a remote control with an appliance and, as such, different appliance types of different manufacturers are often commanded with different remote controls. To minimize the number of individual remote controls a user requires, universal remote controls have been developed. Accordingly, universal remote controls and/or universal remote control application software for commanding various functions of various types of appliances of various manufacturers have become quite widespread. By way of example, universal remote controls are described in commonly assigned U.S. Patent Nos. 4,959,810, 5,255,313 and 5,552,917.

In a common method of setting up a universal remote control, codes for commanding functions of an appliance are learned from a remote control supplied by the manufacturer with that appliance. The learned codes, which are stored within the universal remote control, are then available for subsequent transmission to the appliance. Alternatively, codes for commanding functions of appliances of various types and various manufacturers may be preprogrammed into the universal remote control. The user may

IPR2022-01289 Page 00006

then interact with the universal remote control to identify to the universal remote control which appliance(s) the user desires to command, i.e., the user manually enters an appliance or brand code, usually obtained from a tabulation in a printed user manual or the like, into the universal remote control and the universal remote control utilizes that user provided identity information to access those preprogrammed codes that are appropriate for commanding the identified appliance(s). In this regard, examples of known methods for performing an initial setup of an universal remote control may be found in, for example, the above mentioned U.S. Patent No. 4,959,810 as well as U.S. Patent No. 5,614,906, entitled "Method for Selecting a Remote Control Command Set," or U.S. Patent No. 4,703,359 entitled "Universal Remote Control Unit with Model Identification Capability," each of which is incorporated herein by reference in its entirety.

As an alternative to printed tabulations and the like, various methods have been proposed based on the use of a personal computer to access listings of appliance identification data and/or command codes. Examples of such methods may be found in U.S. Patent No. 7,612,685 entitled "Online remote control configuration system" or co-pending U.S. Patent Application 12/490,978 entitled "System and Method to Facilitate Configuration of a Universal Controlling Device," both of which are incorporated herein by reference in their entirety.

Furthermore, in certain instances the user of a controlling device, whether universal or not, may be provided with the ability to customize the functionality of the controlling device, for example by rearranging which functions are assigned to which keys, by adding lesser-used key functions which were not part of the default command

set provisioned on the controlling device, etc. Once again, such operations may be performed by entering data obtained from a tabulation in a printed user manual, as described for example in U.S. Patent 5,515,052 entitled "Universal Remote Control with Function Synthesis," or by utilizing a personal computer and/or an Internet based service such as described for example in U.S. Patent 7,093,003 entitled "System and Method for Upgrading the Remote Control Functionality of a Device," both patents of common ownership and incorporated herein by reference in their entirety.

While such known methods do work for their intended purpose, it has been seen that the process of setting up and configuring a controlling device such as a universal remote control may remain demanding, exacting, and generally frustrating for many users. For example, user manuals or other documents containing setup codes and entry instructions may be lost or misplaced, or may be superseded as brand and/or model names evolve or controllable functions are added; a personal computer and/or Internet access may not be readily available at the location of the appliances to be controlled; etc. Accordingly, a need exists for a simplified and more user friendly system and method for conveniently setting up and configuring a controlling device.

SUMMARY

The subject disclosure generally relates to controlling devices such as universal remote controls, and more specifically to improved methods for setup and configuration of such devices, i.e., the identification and selection of appropriate sets of command data to be associated with the specific appliances to be controlled. To this end, a controlling device may be provisioned with means to receive voice input from a user, e.g., a

microphone, such that when placed in a setup mode the controlling device may solicit spoken appliance descriptive information, for example brand and model number, to be processed by a speech recognition system in order to identify the appliance to be controlled and the command data to which it is responsive. As will become apparent, speech recognition and command data identification processing may be performed on the controlling device itself; on a locally situated device such a personal computer or a set top box; remotely at a Web server; or a combination thereof as appropriate for a particular embodiment. Additionally, in certain embodiments the speech recognition capability may be extended to allow a user to further refine the controlling device configuration, for example by assigning extended functionality to certain keys, verbally accessing infrequently used functions, defining activities, etc.

A better understanding of the objects, advantages, features, properties and relationships of the invention claimed hereinafter will be obtained from the following detailed description and accompanying drawings which set forth illustrative embodiments and which are indicative of the various ways in which the principles of the invention may be employed.

BRIEF DESCRIPTION OF THE DRAWINGS

For a better understanding of the various aspects of the invention claimed, reference may be had to preferred embodiments shown in the attached drawings in which:

Figures 1a and 1b illustrate exemplary systems in which controlling devices in accordance with the instant invention may utilized;

IPR2022-01289 Page 00009

Figure 2 illustrates a block diagram of exemplary components of the controlling device of Figure 1a;

Figure3 illustrates a block diagram of exemplary components of the controlling device of Figure 1b;

Figure 4 illustrates an exemplary method for configuration of a controlling device to match an appliance to be controlled using spoken input;

Figure 5a and 5b further illustrate exemplary systems in which controlling devices may be configured in accordance with the method of Figure 4;

Figure 6 illustrates an exemplary method for accessing extended functions of a configured appliance using spoken input; and

Figures 7a and 7b illustrate the structure of a brand name, model number, and command code database suitable for use in conjunction with the methods of Figures 4 and 6.

DETAILED DESCRIPTION

Turning now to Figure 1a, there is illustrated an exemplary system in which a controlling device 100 is configured to control various controllable appliances, such as a television 102, a set top box ("STB") 104, a DVD player 106 and an AV receiver 108. As is known in the art, the controlling device 100 may be capable of transmitting commands to the appliances, using any convenient IR, RF, Point-to-Point, or networked protocol 120, to cause the appliances to perform operational functions. While illustrated in the context of a television 102, STB 104, DVD player 106 and AV receiver 108, it is to be understood that controllable appliances may include, but need not be limited to,

IPR2022-01289 Page 00010

televisions, VCRs, DVRs, DVD players, cable or satellite converter set-top boxes ("STBs"), amplifiers, CD players, game consoles, home lighting, drapery, fans, HVAC systems, thermostats, personal computers, etc.

Figure 1b illustrates a second exemplary system which is similar to that of Figure 1a, but where controlling device functionality may be embodied in a user-installed application software module (generally known in the art as an "app") resident in a smart device 110, which device may comprise any of a smart phone, a tablet computer, a portable email device, an e-book, a hand-held games and/or game controller, a portable media player, etc. As will be appreciated, in this instance the physical capability for transmitting appliance command signals 120 may be provided by an external adapter, for example as described in U.S. Patent 6,931,231 entitled "Infrared Generator From Audio Signal Source," by a relay device, for example as described in co-pending U.S. Patent Application 13/071,661 entitled "System and Method for Facilitating Appliance Control Via a Smart Device," or may be built into the smart device, for example as described in co-pending U.S. Patent Application 13/043,915 entitled "System and Method for Provision of Infrared Signaling in Smart Phones," all of which patents and patent applications are incorporated herein by reference in their entirety.

With reference to Figure 2, a first exemplary embodiment of a controlling device 100 for use in commanding the functional operations of one or more appliances may include, as needed for a particular application, a processor 200 coupled to a ROM memory 204, a RAM memory 205, a key matrix 216 (e.g., hard keys, soft keys such as a touch sensitive surface overlaid on a liquid crystal (LCD), and/or an electroluminescent (EL) display), transmission circuit(s) and/or transceiver circuit(s) 210 (e.g., IR and/or

RF), a non-volatile read/write memory 206, a means 202 to provide feedback to the user (e.g., one or more LEDs, illuminable keys, display, buzzer, voice synthesizer with associated speaker, and/or the like), an input/output port 218 such as a serial interface, USB port, modem, Zigbee, WiFi , or Bluetooth transceiver, etc., a power source 220 such as a battery, and clock and timer logic 212 with associated crystal or resonator 214 and speech input means comprising a microphone 224 and associated circuitry 222 for example an analog to digital converter, speech digitizer, etc., as known in the art.

As will be understood by those skilled in the art, some or all of the memories 204, 205, 206 may include executable instructions (collectively, the controlling device program memory) that are intended to be executed by the processor 200 to control the operation of the controlling device 100, as well as data which serves to define the necessary control protocols and command values for use in transmitting command signals to controllable appliances (collectively, the command data). In this manner, the processor 200 may be programmed to control the various electronic components within the controlling device 100, e.g., to monitor the key matrix 216, to cause the transmission of signals, etc. The non-volatile read/write memory 206, for example an EEPROM, battery-backed up RAM, FLASH, Smart Card, memory stick, or the like, may additionally be provided to store setup data and parameters as necessary. While the memory 204 is illustrated and described as a ROM memory, memory 204 can also be comprised of any type of readable media, such as ROM, FLASH, EEPROM, or the like. Preferably, the memories 204 and 206 are non-volatile or battery-backed such that data is not required to be reloaded after battery changes. In addition, the memories 204, 205 and 206 may take the form of a chip, a hard disk, a magnetic disk, an optical disk, and/or the

like. Still further, it will be appreciated that some or all of the illustrated memory devices may be physically combined (for example, a single FLASH memory may be logically partitioned into different portions to support the functionality of memories 204 and 206 respectively), and/or may be physically incorporated within the same IC chip as the microprocessor 200 (a so called "microcontroller") and, as such, they are shown separately in Fig. 2 only for the sake of clarity.

To cause the controlling device 100 to perform an action, the controlling device 100 is adapted to be responsive to events, such as a sensed user interaction with the key matrix 216, sensed sound input, etc. In response to an event, appropriate instructions within the program memory (hereafter the "controlling device operating program") may be executed. For example, when a command function key is actuated on the controlling device 100, the controlling device 100 may retrieve from the command data stored in memory 204, 205, 206 a command value and control protocol corresponding to the actuated function key and, where necessary, current device mode and transmit that command to an intended target appliance, e.g., STB 106, in a format recognizable by that appliance to thereby control one or more functional operations of that appliance. It will be appreciated that the controlling device operating program can be used not only to cause the transmission of commands and/or data to the appliances, but also to perform local operations. While not limiting, local operations that may be performed by the controlling device 100 may include displaying information/data, favorite channel setup, macro key setup, function key relocation, etc. Examples of local operations can be found in U.S. Patent Nos. 5,481,256, 5,959,751, and 6,014,092.

In some embodiments, controlling device 100 may be of the universal type, that is provisioned with a library comprising a multiplicity of command codes and protocols suitable for controlling various appliances - also referred to as sets of command data or codesets. In such cases, for selecting sets of command data to be associated with the specific appliances to be controlled (hereafter referred to as a setup procedure), data may be provided to the controlling device 100 that serves to identify each intended target appliance by its make, and/or model, and/or type. In the embodiment presented, this data may be in the form of spoken input as will be described in greater detail hereafter. Such data allows the controlling device 100 to identify the appropriate command data set within the library of command data that is to be used to transmit recognizable commands in formats appropriate for such identified appliances. The library of command data may represent a plurality of controllable appliances of different types and manufacture, a plurality of controllable appliances of the same type but different manufacture, a plurality of appliances of the same manufacture but different type or model, etc., or any combination thereof as appropriate for a given embodiment.

In an alternative embodiment controlling device functionality may take the form of a software app resident in a smart device 110. A representative smart device, illustrated in Figure 3 in the form of a smart phone, may include as needed for a particular application, processing means 300 which may comprise both an application processing section 302 and an RF/DSP processing section 304; an LCD display 306; a keypad 308 which may comprise physical keys, touch keys overlaying LCD 306, or a combination thereof; a subscriber identification module (SIM) card 310; memory means 312 which may comprise ROM, RAM, Flash, or any combination thereof; WiFi and/or

Bluetooth wireless interface(s) 314; a wireless telephony interface 316; power management circuitry 318 with associated battery 320; a USB interface 322 and connector 324; an audio management system 326 with associated microphone 328, speaker 330, and headphone jack 332; built-in or add on IR communication means comprising a transmitter and/or receiver 336 with associated IR output diode(s) 334; and various optional accessory features 338 such as a digital camera, GPS, accelerometer, etc.

It is known to offer an app for download and installation into memory 312 which app may serve to allow use of the smart phone to transmit commands suitable for operation of entertainment and other appliances. Such an app may draw on a library of codesets suitable for commanding the functional operations of various types of appliances of multiple manufactures and/or models, i.e., a library of codesets for a so-called "universal" controller, as well known in the art. As appropriate for a particular embodiment this library may be resident on the smart device itself, either downloaded as part of or in conjunction with the app or preinstalled in memory 312 or in a separate self-contained command transmitter; may be located externally at a local PC or remote server device accessible to smart device 110 for the download of only those code sets necessary for operation of the configured appliances; or may be located in a command relay device such as described in the previously referenced U.S. Patent Application 13/043,915.

In either of these exemplary embodiments, during setup and configuration of the controlling device, a user my provide appliance identification via spoken input as will now be described in conjunction with the flowchart of Figure 4. Since the steps involved are similar for either embodiment, it is to be understood that in the following descriptions, except where otherwise indicated the term "controlling device" is intended

to encompass, mutatis mutandis, exemplary controlling device 100, exemplary controlling device 110, and all equivalents thereof.

Initially, at step 400 a user may place the controlling device into a setup mode, for example by activating a "setup" key, by selecting that item from a displayed menu of choices, by a voice command, or any other method as appropriate for a particular embodiment. In this context, it will be appreciated that in certain embodiments wherein a controlling device, such as for example controlling device 100' of Figure 5a, may be enabled to communicate bidirectionally 504 with an appliance such as for example STB 104, the abovementioned menu displays and any other user prompts, messages, etc., may be presented on a connected appliance such as for example TV 102.

Once the setup mode has been initiated, at step 402 the controlling device may prompt the user to speak the brand name of the appliance to be added to the configuration of the controlling device. This and subsequent prompts for voice input may take the form of an illuminated LED and/or "speak" symbol, a displayed text or image, a synthesized spoken message (e.g., where controlling device user feedback means 202 comprises speech synthesis means and a speaker, or where a smart device app has access to speaker 330), etc. The resulting spoken syllables may be digitized and presented to a speech recognition means for processing and comparison to a phonetic database of brand names which have been cross referenced to appropriate codesets within the library of codesets. As appropriate for a particular embodiment, all or part of said speech recognition processing may be performed by programming on the controlling device itself; or, with reference to Figures 5a and 5b, may be performed by programming on a local appliance such as STB 104 which is in bidirectional communication 504 with the controlling

device; or may be performed by programming resident on a remote server 500 accessible via a network 502 such as the Internet or PSTN. In the latter case, access to such network may be via an intermediary appliance such as STB 104, illustrated at 506, or may be via a local network connection 508, such as WiFi or Bluetooth, through a gateway device such as a router (not illustrated). As will be appreciated, in those embodiments where the captured voice input data is to be forwarded to another device, in some embodiments it may be subject to initial preprocessing, compression, etc., by programming in the controlling device.

At step 404, if the speech recognition means is unable to uniquely identify the desired brand, step 402 may be repeated in order to solicit additional identifying information from the user. For example, a user may be presented with a short list of possible brand identities from which to select; may be prompted to spell the first few characters of the brand name; may be requested to speak the name of a geographic region or a service provider; etc.; as appropriate to facilitate the identification process.

Once a brand has been successfully identified, at step 406 the user may be prompted to provide spoken appliance type and/or model number information for processing and comparison to a phonetic database of model number data which is applicable to the identified brand if necessary, e.g., to further narrow down the codeset choices. As will be appreciated, in many manufacturer model numbering systems the appliance type may be inferred from an assigned model number, and accordingly in certain embodiments the appliance type may not be initially requested. However in instances where a model number alone may be insufficient, or in embodiments where availability of an appliance type may facilitate model number recognition processing by

providing a context to limit the extent of the database search, an appliance type may comprise part of the initial request. At step 408 the spoken syllables comprising the model identity may be processed and compared to a phonetic database of model numbers by the speech recognition means which have also been cross referenced to codesets within a library of codesets. If the initially provided model information is insufficient to uniquely identify the appliance, at step 410 additional user input may be solicited. For example, a user may be requested to indicate a device type if this was not already provided; to provide geographic region or service provider; to select from a series of displayed images of appliances and/or OEM remote controls; etc. As an alternative to, or in conjunction with the above, in some embodiments a group of test codes each corresponding to a predetermined command function (for example "power") in one of several different command data formats may be downloaded into or otherwise indicated to the controlling device, to allow a user to determine by experimentation which one of a group of possible command codesets is applicable to his appliance, for example as described in the previously referenced U.S. Patent 5,614,906 entitled "Method for Selecting a Remote Control Command Set."

Once a suitable command code set has been uniquely identified, at step 412 the desired setup data may be communicated to the controlling device operating program or remote control app, as appropriate for the device being configured. Depending upon the particular embodiment, communication of the setup data may comprise downloading of a complete set of command code data into the controlling device from an off-platform database of codesets located for example on local appliance such as STB 104 or on a remote server 500; or may comprise simply communicating a set up number or other

pointer to an entry in a database of command codes already preloaded into the memory of the controlling device. Thereafter, at step 414 the user may be prompted to indicate if they wish to configure additional appliances. If so, the process may be repeated starting at step 402. If not, the current appliance configuration session is complete and the controlling device exits setup mode.

In an additional aspect of the invention, once the appliances to be controlled have been identified to a controlling device as described above or by any other convenient method, a user may be enabled to further customize individual key functionality via voice input. In this regard, since many OEM remote controls may include a large number of key functions some of which may be infrequently used or of interest only to certain classes of users, the initial setup configuration of many universal controlling devices may include only a subset of the total functionality of an appliance's OEM remote, comprising the most commonly used functions. By way of example, Tables 1a and 1b below illustrate a specific set of remote control commands which may be supported by a particular model of DVD player. Table 1a lists those commonly used commands which may be included in the default key configuration of a typical universal controlling device, while Table 1b lists additional or "extended" functions which may be unique to this particular DVD player and/or may perform seldom used operations.

Table 1a

DVD player standard functions

Power on	Fast forward	Menu
Power off	Fast reverse	Up/down

IPR2022-01289 Page 00019

Digits 0-9	Skip forward	Left/right
Play	Skip reverse	Select
Pause	Stop	Open/close

Table 1b

DVD player brand xxxx model yyyy extended functions

Angle	HDMI mode	Repeat
A-B	Marker	Search
Audio	Picture adjust	Setup
Dimmer	Pure direct	Source
Disc layer	Random	Zoom

Nevertheless, a user of a universal controlling device may from time to time desire to issue appliance commands corresponding to one or more of the extended functions supported by his particular appliance model. Various methods have been proposed to enable a user to customize universal controlling device key functionality by adding available extended functions not initially available as part of the default setup. By way of example, descriptions of such methods may be found in U.S. Patents 5,515,052 entitled "Universal Remote Control with Function Synthesis" or 7,093,003 entitled "System and Method for Upgrading the Remote Control Functionality of a Device," both of common ownership and incorporated herein by reference in their entirety.

Further, since different appliance manufacturers may use differing terminology for the same function, a generic function label used for a key on a universal controlling

IPR2022-01289 Page 00020

device may not always correspond to the term used by the original equipment manufacturer to reference that function. By way of example, Table 2 below lists some of the known synonyms for the command function which may be used to cause a device such as a TV set or STB to tune from a currently selected channel to the immediately previous channel, which function may simply be labeled with the generic term "Last" on the keypad of a universal controlling device .

Table 2. "Last channel" synonyms		
Alternate channel	Go back	Quick view
Back	Jump	Recall
Channel recall	Last channel	Return
Channel return	Previous channel	Revue
Flashback	Swap	R-Tune

Accordingly, in addition to facilitating the initial configuration of appliances to be controlled, in some embodiments the speech recognition capabilities described herein may be further adapted to provide a convenient and rapid method for a user of a controlling device to access specific functions of his configured appliance via voice commands. As will become apparent, such extended function access may be for the purpose of issuing an immediate one-time command transmission, or may be for the purpose of assigning the identified command function to a key of the controlling device for future appliance operating convenience.

IPR2022-01289 Page 00021

Turning now to the flowchart of Figure 6, an exemplary extended function access method may be initiated at steps 600 or 602. As before, initiation may take the form of a key activation, menu selection, spoken input, etc., as appropriate for a particular embodiment. Initiation at step 600 may be for the purpose of issuing a one-time or immediate appliance command, while initiation at step 602 may be for the purpose of assigning an appliance command function to a key of the controlling device. Step 602 may thus include an indication of the particular controlling device key which is to reconfigured. Regardless of the purpose, at step 604 the user may be prompted to speak the desired function name. As before this prompt may take the form of an illuminated LED and/or "speak" symbol, a displayed text or image, etc., as appropriate. The resulting spoken syllables may be digitized and presented to a speech recognition means for processing and comparison to a phonetic database of command function names which have been cross referenced to command data within a codeset that is applicable to the particular appliance model currently configured, for example as illustrated in Table 1b above. As with the methods described previously, all or part of said speech recognition processing may be performed by programming on the controlling device itself; may be performed by programming on a local appliance which is in bidirectional communication with the controlling device; or may be performed by programming resident on a remote server accessible via a network such as the Internet or PSTN.

At step 604 it may be determined if the spoken input has sufficed to uniquely identify the desired command function. If not at step 608 additional information may be solicited from the user to assist in identifying the desired command function. By way of example, a user may be requested to indicate a geographic region or the approximate age

of an appliance; may be presented with a display of short list of function names from which to select; may be request to provide synonym(s) for the desired command function: etc. Once the desired function has been uniquely identified, at step 610 the indicated command code data may be provisioned to the controlling device. As appropriate for the particular implementation, such provisioning may comprise downloading the data itself, supply of a pointer to an entry in a local database, etc. Thereafter, at step 612 it may be determined if the request was for a one-time command transmission (i.e., originated by step 600) or for assignment of the function to a key (i.e., originated by step 602). If for a one-time transmission, at step 614 the provisioned data may be utilized to transmit the desired command to the target appliance. If for assignment of the function to a key, at step 616 the new function may be assigned to the indicated key, for example using an entry in a key reassignment table such as described in U.S. Patent 6,195,033 entitled "Key Mover," of common ownership and incorporated herein by reference in its entirety.

With reference to Figures 7a, the structure of an exemplary appliance command code database for use in conjunction with the methods of Figures 5 and 6 may comprise a series of brand records 702 each of which points to a group of model records 704 specific to that brand, each model record in turn pointing to a codeset record 706 containing command code data, function labels, etc., which are applicable to that specific brand and model of appliance. It will be appreciated that since multiple models of a manufacturer's appliance may share the same OEM remote control design and/or command code set, there may not be a one-to-one correspondence between model number records 704 and codeset records 706.

Each brand record 702 may comprise a brand name entry comprising a text representation 710 of the brand name together with a phonetic representation 712 of that brand name comprising digitized phoneme templates, cepstral coefficients or vectors, etc., as appropriate for the speech recognition algorithms of a particular embodiment. Brand records may also include an entry 714 which may identify a geographic region, together with its phonetic representation 716. By way of example, region information may be requested from a user if a spoken brand name is not immediately identified at step 404 of Figure 4, and used to filter search results when multiple possible matches were initially identified. Alternatively, in some embodiments where the database is to be used to support multiple territories, multiple entries may be created for a particular brand name in order to cater for regional differences in accent or pronunciation, in which case the region information may be used to preselect those entries which are to participate in a search. As will be appreciated, in embodiments which are Internet server based region information may be derivable from the IP address associated with the requesting device, and thus in those cases the region identification step may be performed automatically. Region information might also be automatically gathered using the GPS capabilities of a smart device, the network tower information of a network on which a smart device resides, etc. The final entry of a brand name record may take the form of a pointer 718 to a group of model number records comprising appliance models which correspond to the indicated brand.

Each model number record 704 may comprise text entries for model number 720, appliance type 722 (e.g. DVD) and subtype 724 (e.g. Blu-ray), region 726, and service provider (e.g. cable MSO, satellite, etc.) together with corresponding phonetic

representations 730 through 736. As before, the data contained in the device type, subtype, region, and provider entries may be utilized to refine model selection, for example as described in conjunction with step 410 of Figure 4. Additionally, model record 704 may also include a link 740 to an image of the appliance and/or a link 742 to an image of the original equipment remote control, again for possible use in refining a user's identification of his exact appliance model. As will be appreciated, not all of the above fields may be populated in every model record. Finally, each model number record 704 may contain a link 744 to a codeset record.

With reference to Figure 7b, each code set record 706 may comprise a unique codeset identity number, a block of protocol and formatting information 752 which may describe the physical protocol requirements for transmitting the command data elements which comprise this codeset, including for example items such as carrier frequency, bit encoding, data frame size and structure, appliance address, parity or CRC requirements, etc. Following block 752 may be a series of individual command function entries 754. Each entry may comprise a standard function ID 756, which may be a normalized tag indicative of the function or operation invoked by this command (i.e. so that within a universal remote control system the same functionality may be mapped to a key regardless of any variations in appliance manufacturer-specific nomenclature, for example as may be seen in Table 2 above); a function name 758 corresponding to the name by which that function is commonly referenced by this appliance's manufacturer together with its phonetic representation 760; and command data 762 which, when transmitted using the protocol specifications of block 752, will command the appliance to perform the indicated action. In some embodiments, multiple instances of function name

IPR2022-01289 Page 00025

758 and associated phonetic representation 760 may be present to cater for synonyms and/or regional differences.

As will be appreciated, at step 412 of Figure 4, all or part of the information contained in the identified codeset record may be transferred to the controlling device being configured. As appropriate for a particular embodiment, such a transfer may comprise only the codeset number 750 where it is determined that the required codeset is already preloaded in the memory of the controlling device or a local appliance, or may comprise a full download of codeset number 750, protocol and formatting information 752, and all or a portion of the command data entries 762. Furthermore, in order to identify user-requested extended command functions, the phonetic representations 758 corresponding to the command function entries of the codeset number corresponding to the currently configured appliance may be searched by the speech recognition means, for example as illustrated at steps 604 and 606 of Figure 6, and the matching command data returned to the requesting controlling device as illustrated 610 of Figure 6.

* * * * *

While various concepts have been described in detail, it will be appreciated by those skilled in the art that various modifications and alternatives to those concepts could be developed in light of the overall teachings of the disclosure.

Further, while described in the context of functional modules and illustrated using block diagram format, it is to be understood that, unless otherwise stated to the contrary, one or more of the described functions and/or features may be integrated in a single physical device and/or a software module, or one or more functions and/or features may be implemented in separate physical devices or software modules. It will also be

IPR2022-01289 Page 00026

appreciated that a detailed discussion of the actual implementation of each module is not necessary for an enabling understanding of the invention. Rather, the actual implementation of such modules would be well within the routine skill of an engineer, given the disclosure herein of the attributes, functionality, and inter-relationship of the various functional modules in the system. Therefore, a person skilled in the art, applying ordinary skill, will be able to practice the invention set forth in the claims without undue experimentation. It will be additionally appreciated that the particular concepts disclosed are meant to be illustrative only and not limiting as to the scope of the invention which is to be given the full breadth of the appended claims and any equivalents thereof.

All patents cited within this document are hereby incorporated by reference in their entirety.

CLAIMS

What is claimed is:

1. A method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross-referenced to the brand of the target appliance; and

causing the at least one codeset to be provisioned to the controlling device for use in commanding functional operations of the target appliance.

2. The method as recited in claim 1, wherein the speech recognition engine identifies a plurality of codesets that are cross-referenced to the brand of the appliance and the method further comprises receiving at the speech recognition engine voice data indicative of at least a model of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to the model of the target appliance and wherein the at least one codeset that is provisioned to controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance.

3. The method as recited in claim 2, wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data.

4. The method as recited in claim 3, wherein the controlling device comprises a memory having stored therein the library of codesets.

5. The method as recited in claim 4, wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine.

6. The method as recited in claim 3, wherein the speech recognition engine is executed on a computing device remote from the controlling device.

7. The method as recited in claim 6, wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto.

8. The method as recited in claim 1, wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto.

9. The method as recited in claim 1, wherein the controlling device has a plurality of function keys activatable to cause a transmission of a command to the target appliance and wherein the method comprises receiving at the speech recognition engine voice data indicative of a command to be assigned to a function key of the controlling device whereupon the speech recognition engine uses the voice data indicative of a command to be assigned to a function key to identify within the at least one codeset command data

that is cross-referenced to the command and causing the command data of the at least one codeset to be used by the controlling device in response to the function key being subsequently activated to cause a transmission of a command to the target device.

10. The method as recited in claim 1, further comprising receiving at the speech recognition engine voice data indicative of a command to be transmitted from the controlling device whereupon the speech recognition engine uses the voice data indicative of a command to be transmitted to identify within the at least one codeset command data that is cross-referenced to the command and causing the command data of the at least one codeset to be used to transmit a command to the target appliance.

11. The method as recited in claim 1, wherein location data is additionally utilized in the process of identifying the at least one codeset that is cross-referenced to the brand of the target appliance.

12. The method as recited in claim 2, wherein location data is additionally utilized in the process of identifying the at least one codeset that is cross-reference to the model of the target appliance.

13. A system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a

speech recognition engine to use received voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross-referenced to the brand of the target appliance and to cause the at least one codeset to be provisioned to the controlling device for use in commanding functional operations of the target appliance.

14. The system as recited in claim 13, wherein the instructions are downloaded to the controlling device in a downloadable app.

15. The system as recited in claim 14, wherein the controlling device comprises one of a smart phone or a tablet computing device.

16. The system as recited in claim 13, wherein the speech recognition engine functions to identify a plurality of codesets that are cross-referenced to the brand of the appliance and the instructions further cause the speech recognition engine to use received voice data indicative of a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to a model of the target appliance whereupon the at least one codeset that is provisioned to controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance.

17. The system as recited in claim 16, wherein the controlling device comprises a memory having stored therein the library of codesets.

18. The system as recited in claim 16, wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto.

19. The system as recited in claim 13, wherein the processing device comprises one or more computing devices located remotely from the controlling device.

20. The system as recited in claim 19, wherein the controlling device comprises a memory having stored therein the library of codesets.

21. The system as recited in claim 19, wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto.

22. The system as recited in claim 13, wherein the controlling device has a plurality of function keys activatable to cause a transmission of a command to the target appliance and wherein the instructions cause the speech recognition engine to use voice data indicative of a command to be assigned to a function key of the controlling device to identify within the at least one codeset command data that is cross-referenced to the command and to cause the command data of the at least one codeset to be used by the controlling device in response to the function key being subsequently activated to cause a transmission of a command to the target device.

23. The system as recited in claim 13, wherein the instructions cause the speech recognition engine to use voice data indicative of a command to be transmitted from the controlling device to identify within the at least one codeset command data that is cross-referenced to the command and to cause the command data of the at least one codeset to be used to transmit a command to the target appliance.

24. The system as recited in claim 13, wherein the instructions additionally cause location data to be considered when identifying the at least one codeset that is cross-referenced to the brand of the target appliance.

25. The system as recited in claim 16, wherein the instructions additionally cause location data to be considered when identifying the at least one codeset that is cross-reference to the model of the target appliance.

ABSTRACT

A speech recognition engine is provided voice data indicative of at least a brand of a target appliance. The speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross-referenced to the brand of the target appliance. The at least one codeset so identified is then caused to be provisioned to the controlling device for use in commanding functional operations of the target appliance.

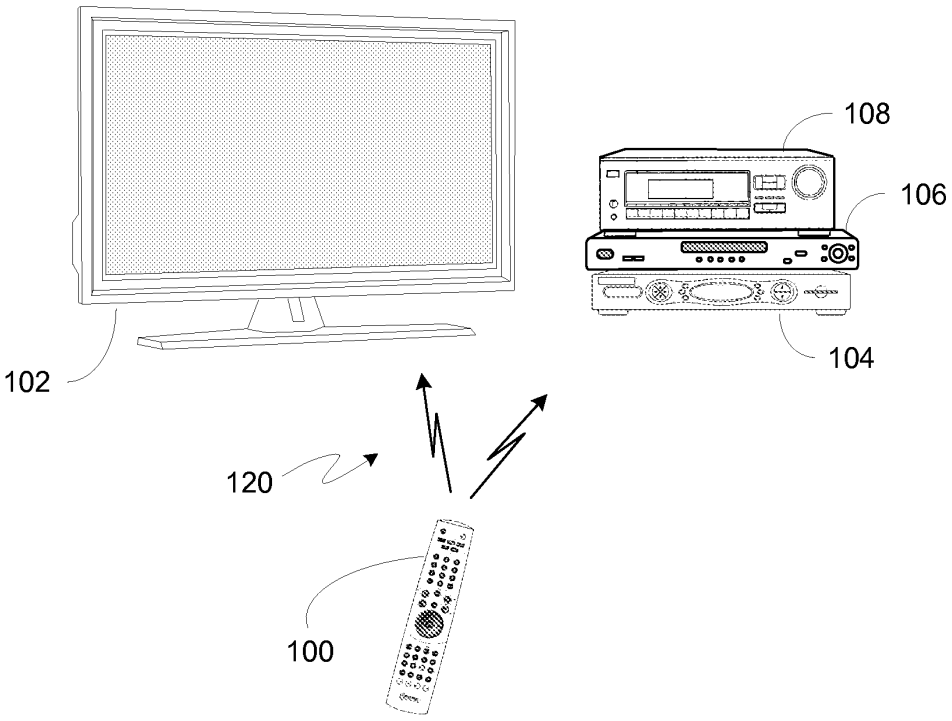


Figure 1a

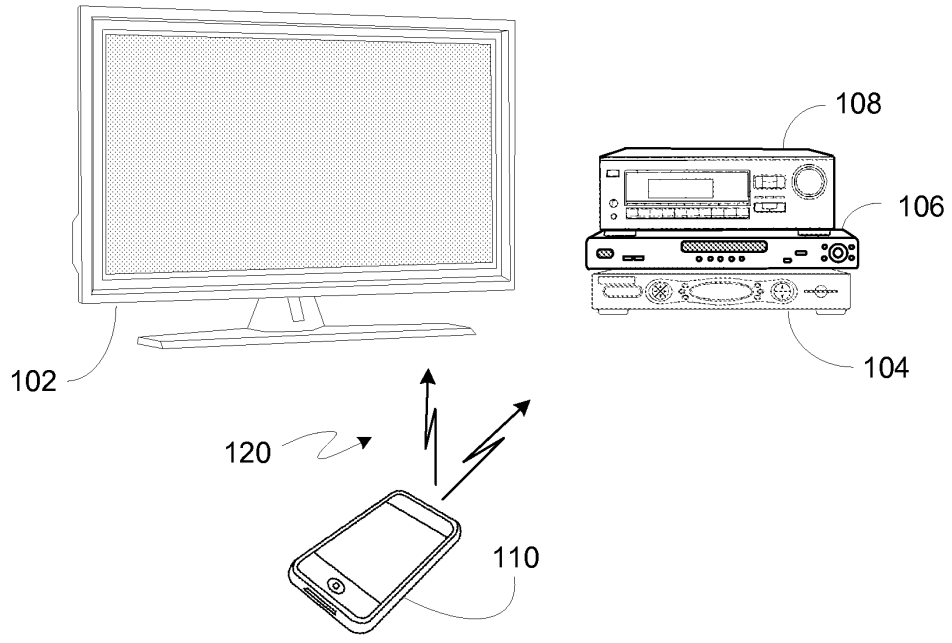


Figure 1b

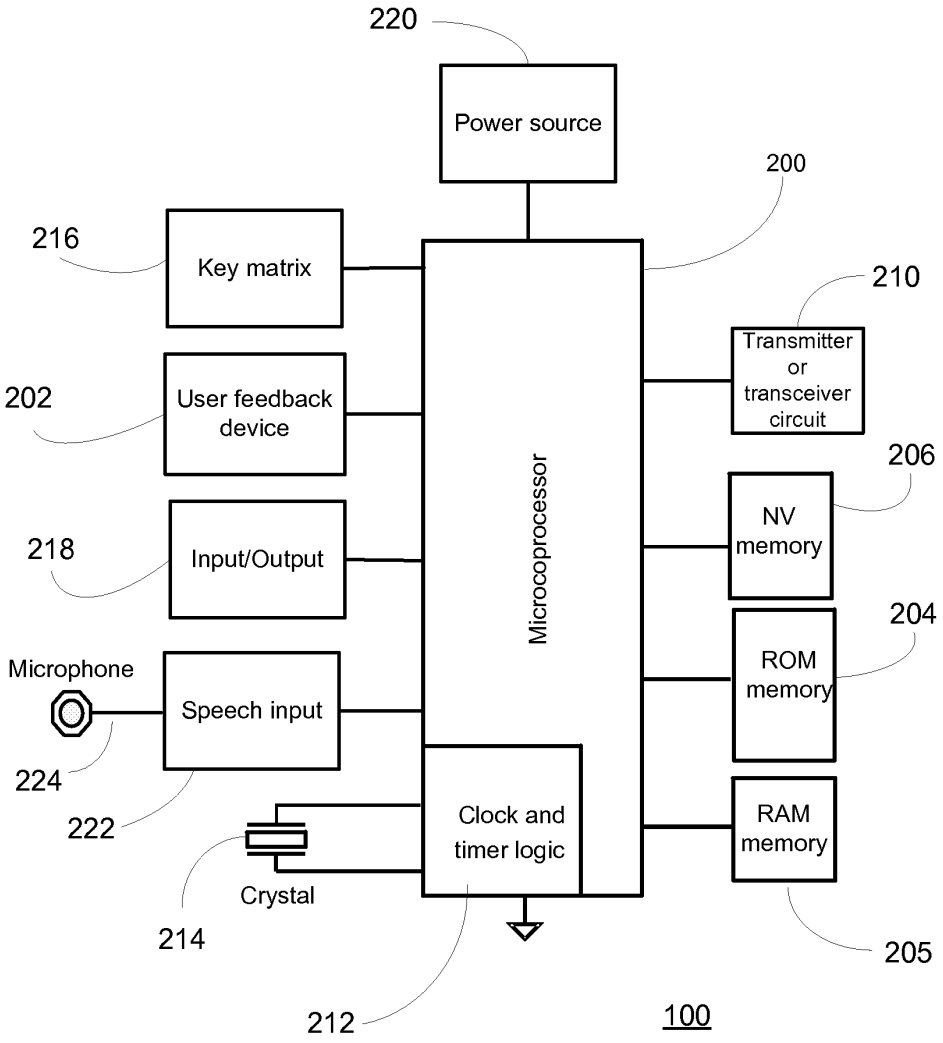

220
Power source
200
216
Key matrix
210
Transmitter or transceiver circuit
202
User feedback device
206
NV memory
218
Input/Output
Microcoprocessor
204
ROM memory
Microphone
Speech input
224
222
Clock and timer logic
RAM memory
Crystal
214
205
212
100

Figure 2

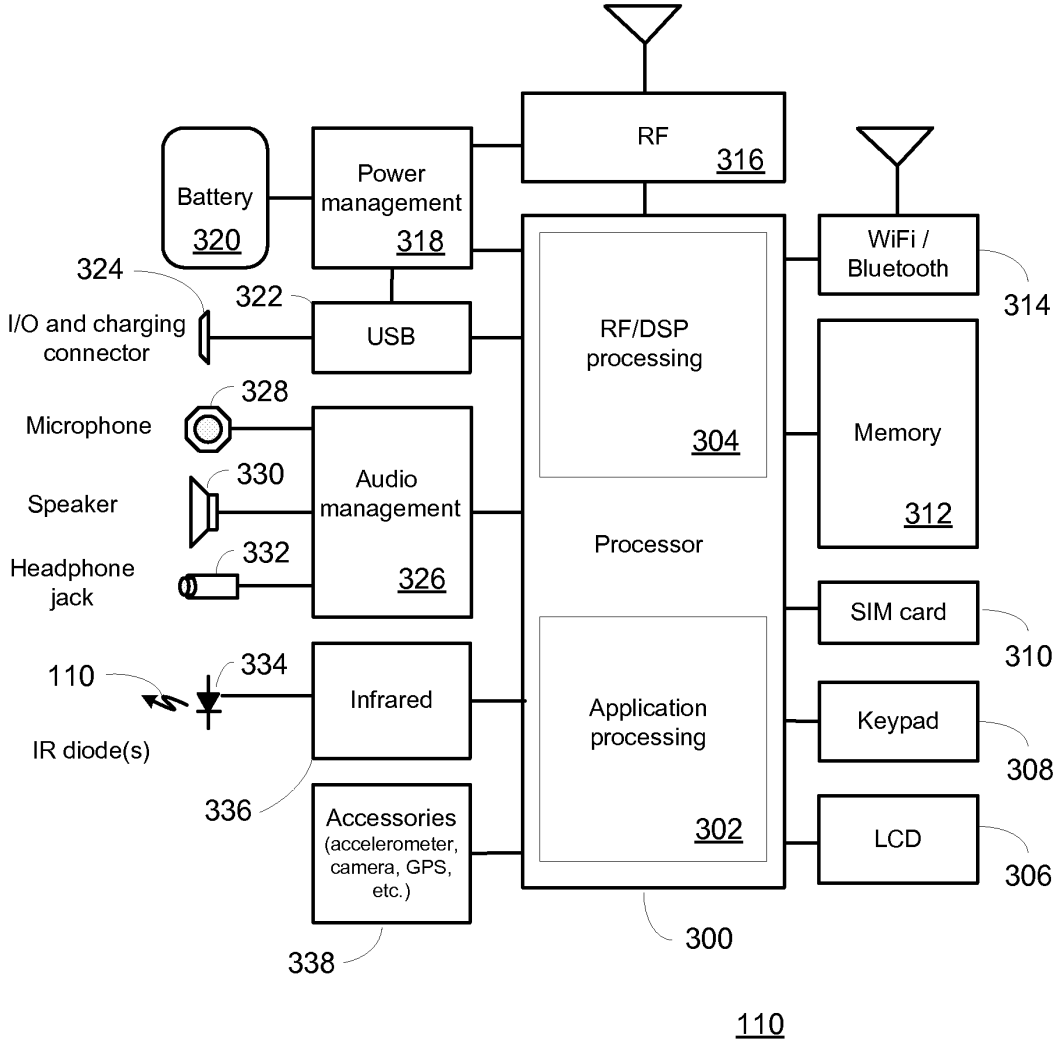

RF
316
Battery
320
Power
management
318
WiFi /
Bluetooth
314
324
322
I/O and charging
connector
USB
RF/DSP
processing
304
328
Microphone
Memory
312
330
Speaker
Audio
management
326
Processor
332
Headphone
jack
SIM card
310
110
334
Infrared
Application
processing
302
Keypad
308
IR diode(s)
336
Accessories
(accelerometer,
camera, GPS,
etc.)
LCD
306
300
338
110

Figure 3

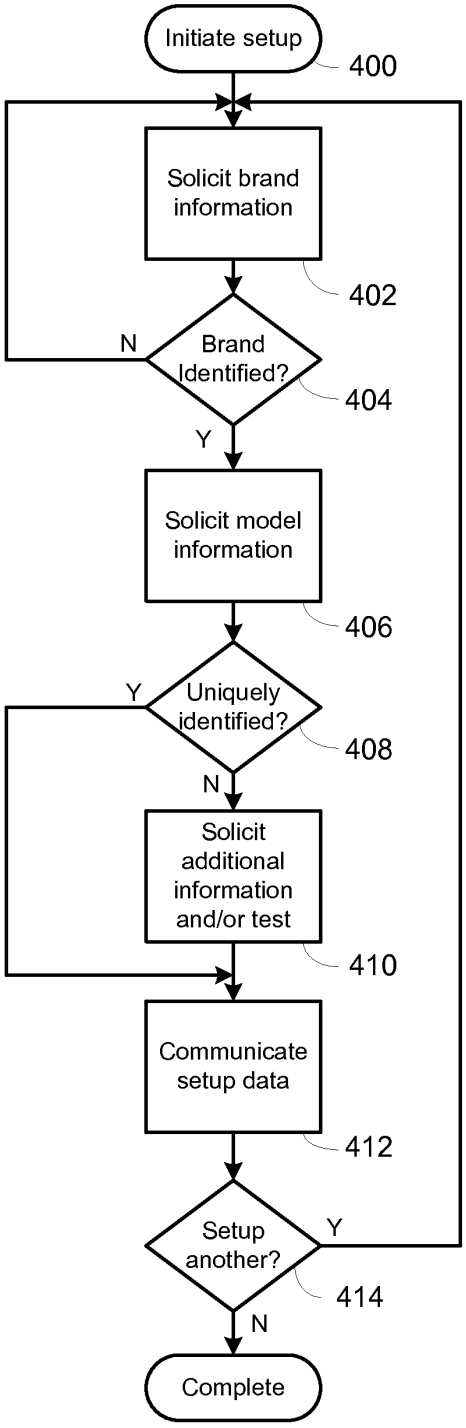

Initiate setup
400
Solicit brand information
402
Brand Identified?
N
404
Y
Solicit model information
406
Uniquely identified?
Y
408
N
Solicit additional information and/or test
410
Communicate setup data
412
Setup another?
Y
414
N
Complete

Figure 4

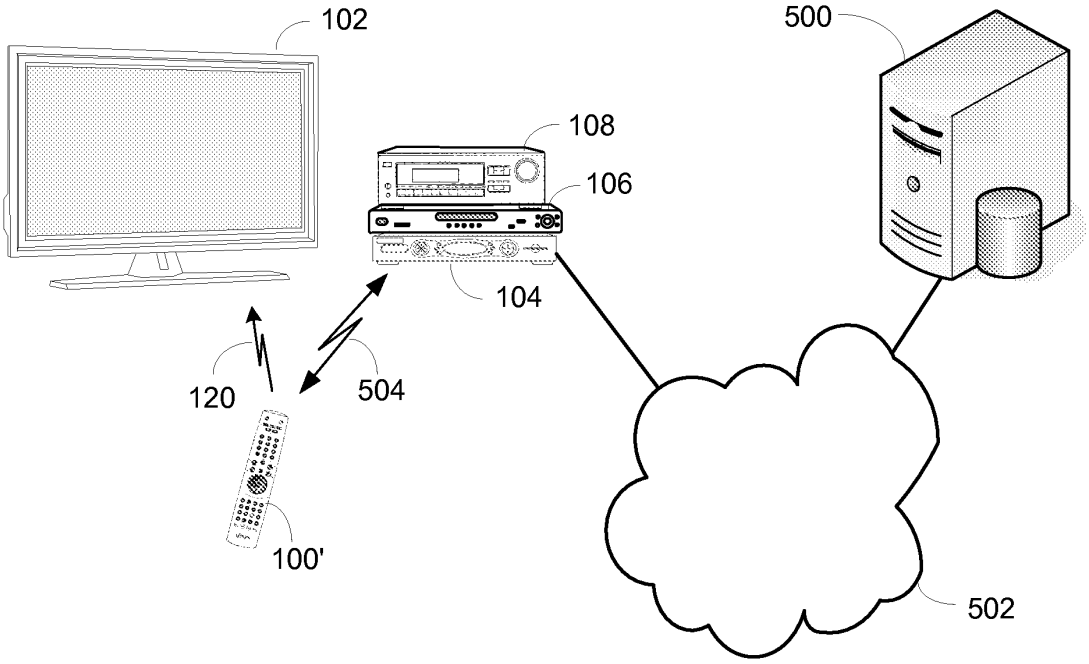


Figure 5a

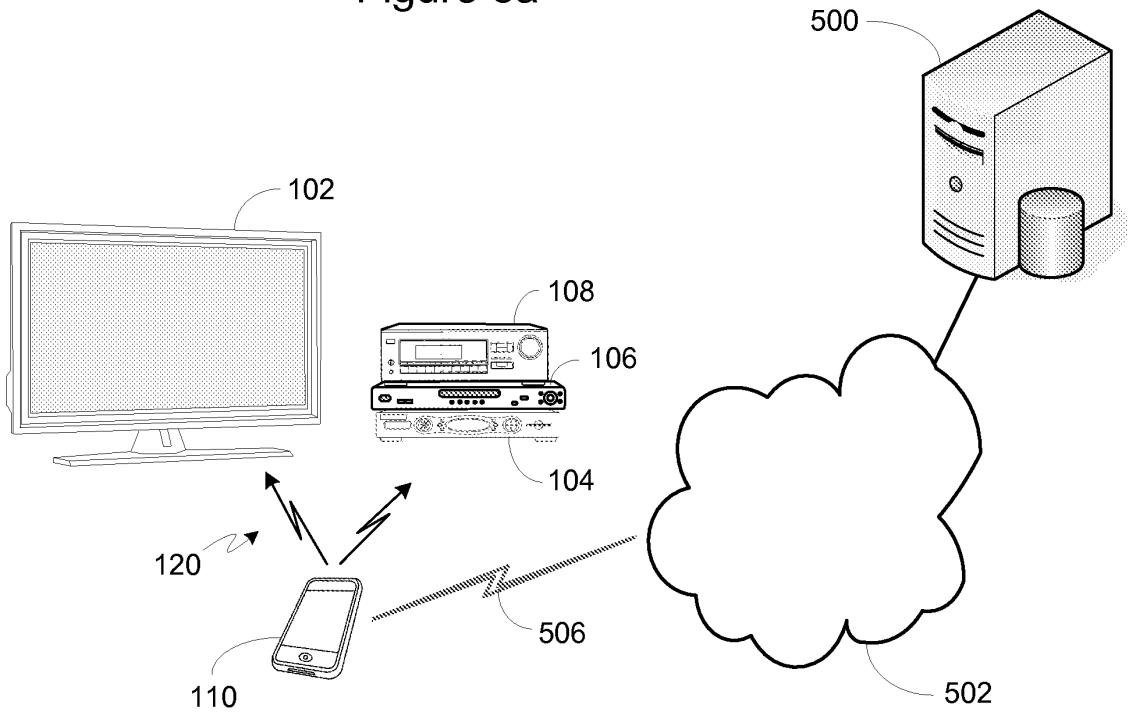


Figure 5b

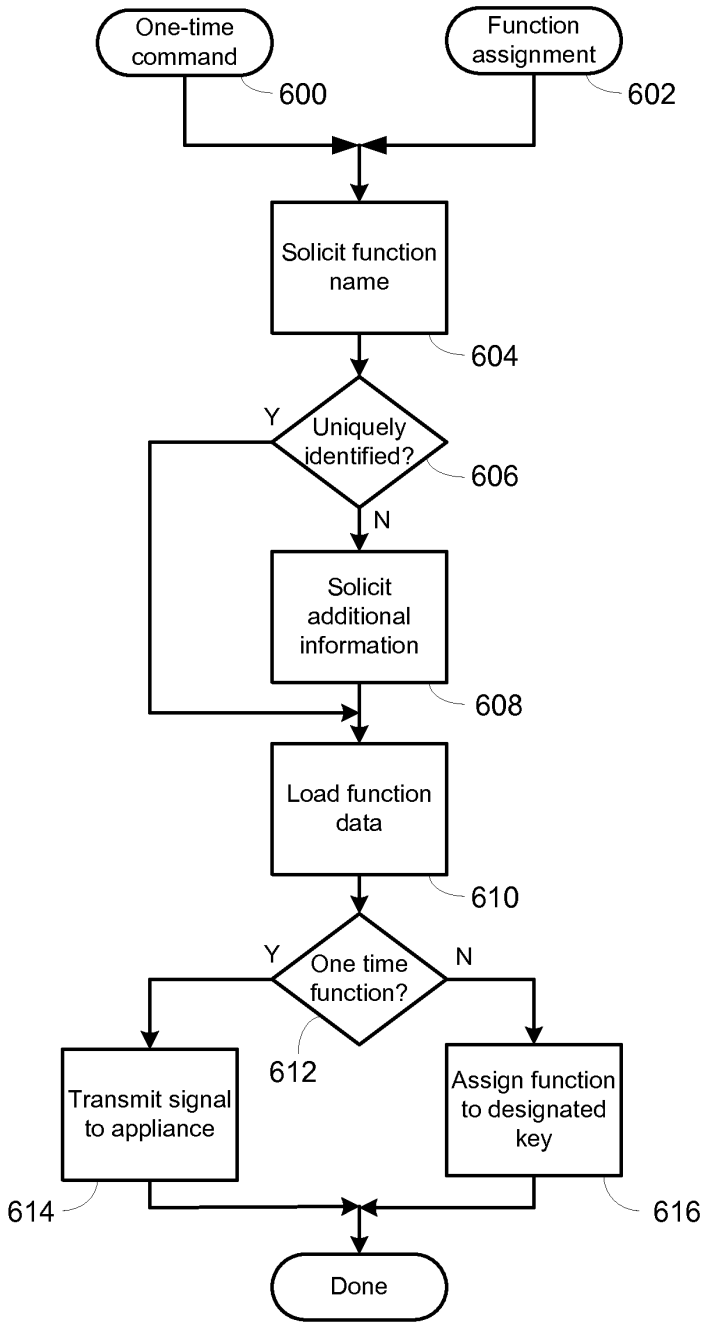
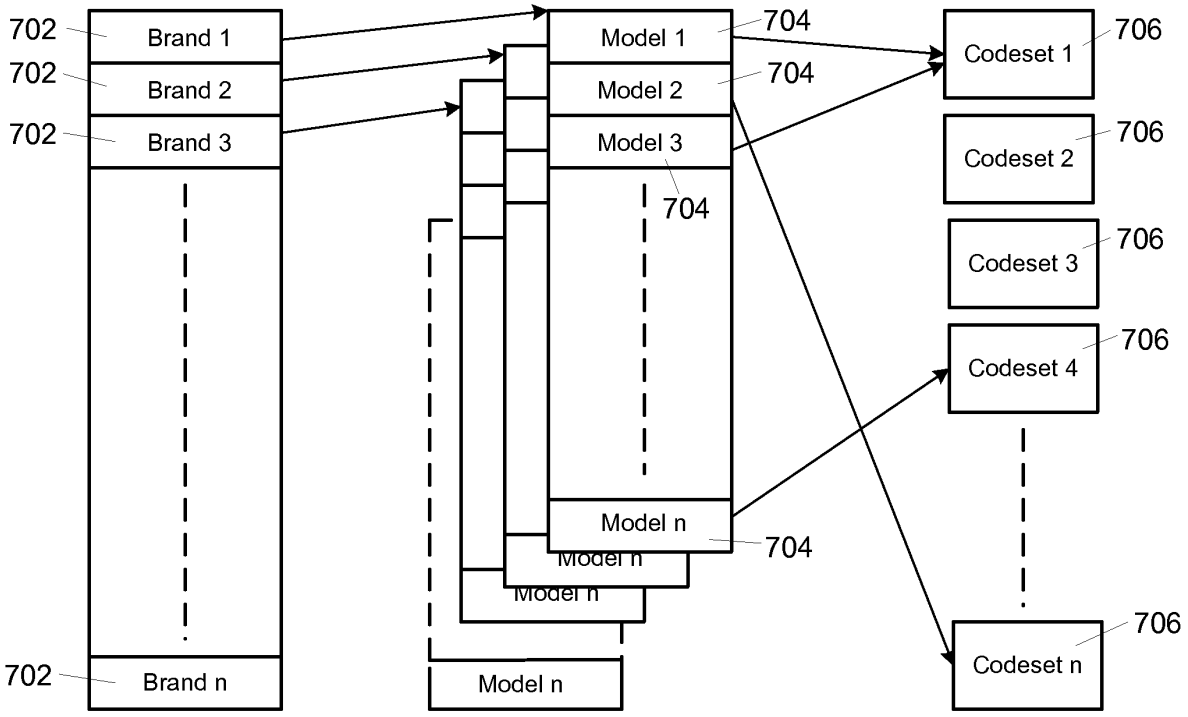

One-time command
600
Function assignment
602
Solicit function name
604
Y
Uniquely identified?
606
N
Solicit additional information
608
Load function data
610
Y
One time function?
N
612
Transmit signal to appliance
614
Assign function to designated key
616
Done

Figure 6



Brand/model/codeset database

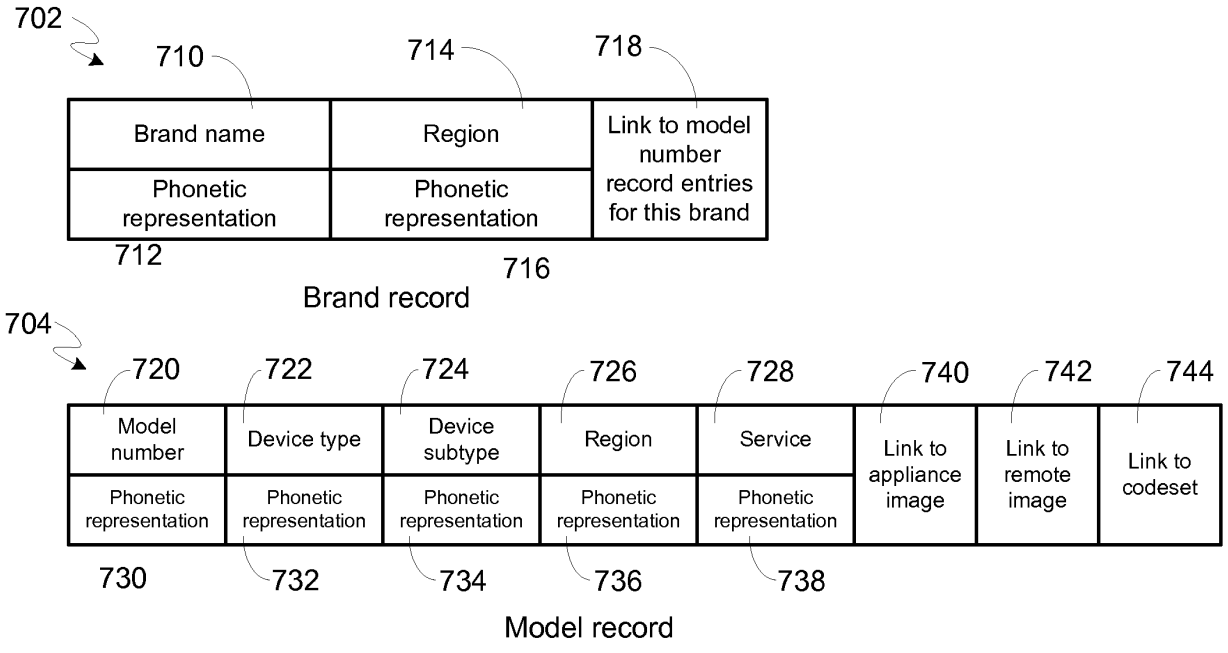


Figure 7a

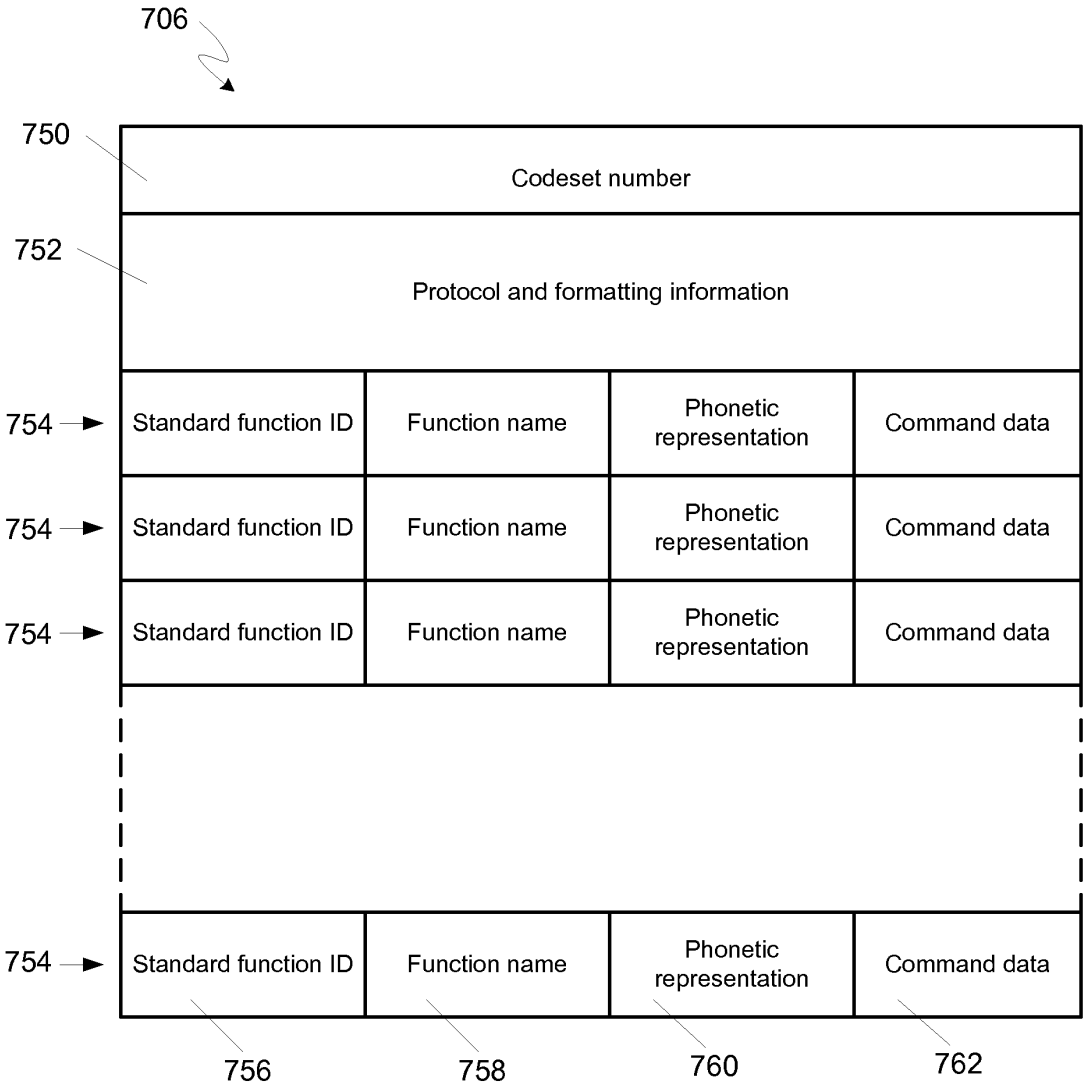

706
750
Codeset number
752
Protocol and formatting information
754
Standard function ID
Function name
Phonetic representation
Command data
754
Standard function ID
Function name
Phonetic representation
Command data
754
Standard function ID
Function name
Phonetic representation
Command data
754
Standard function ID
Function name
Phonetic representation
Command data
756
758
760
762
Codeset data

Figure 7b

PTO/SB/01A (01-09)
Approved for use through 09/30/2010. 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 displays a valid OMB control number.

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

Title of Invention	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE	Docket No. 81230.156US1

As the below named inventor(s), I/we declare that:

This declaration is directed to:

✓ The attached application, or

___ United States application or PCT international application No. _____, filed on _____

_____ as amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR(S)

Inventor one: Jonathan Lim	Date: Nov. 16 2011
Signature: Jonathan Lim	Citizen of: U.S.
Inventor two:	Date:
Signature:	Citizen of:
Inventor three:	Date:
Signature:	Citizen of:
Inventor four:	Date:
Signature:	Citizen of:

_____ Additional inventors are being named on _____ additional form(s) attached hereto.

CHI 51,059,058v4

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is used by the public to file (and the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

PTO/SB/96 (01-08)
Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Jonathan Lim

Application No./Patent No.: filed herewith Filed/Issue Date: filed herewith

Entitled: SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE

Universal Electronics Inc., a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:
1. ☒ the assignee of the entire right, title, and interest; or

2. ☐ an assignee of less than the entire right, title and interest
(The extent (by percentage) of its ownership interest is _____%)

in the patent application/patent identified above by virtue of either:

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.

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.

3. 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.

☐ As required by 37 CFR 3.73(b)(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.

/Gary R. Jarosik/	November 17, 2011
Signature	Date
Gary R. Jarosik, Reg. No. 35,906	312-456-8400
Printed or Typed Name	Telephone Number
Attorney of Record	
Title	

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.**

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

American LegalNet, Inc.
www.FormsWorkflow.com

PATENT ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I, **Jonathan Lim** of 11281 Anegada St., Cypress, California 90630, hereby sell and assign to **Universal Electronics Inc., ("Assignee")**, a Delaware corporation, having its principal place of business at 6101 Gateway Drive, Cypress, California 90630-4841, U.S.A., its successors, assigns, nominees, or other legal representatives, the entire right, title, and interest in and to the invention in **SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE** invented by me, which has been assigned application number **13/**_____, and the application for United States patent therefor, the declaration, and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subject-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents and Utility Model Registrations which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any other country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue said Letters Patent or Utility Model Registration to the said Assignee, its successor, assigns, nominees, or other legal representatives, as assignee of the entire interest herein assigned. I covenant that I have not executed and will not execute any agreement in conflict herewith and agree that I will communicate to said Assignee, its successors, assigns, nominees, or other legal representatives, all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do all lawful acts requisite for the application for such divisional, continuing, or reissue applications, or the procuring thereof, and that if and when said Assignee, its successors, assigns, nominees, or other legal representatives desire to file a disclaimer relating thereto, I will, upon request, sign all lawful papers requisite for the filing of such disclaimer. I further covenant and agree that I will, at any time upon request, do everything legally possible to aid said Assignee, its successors, assignees, nominees, or other legal representatives, either in its or their own names, to apply for, obtain, and enforce proper patent and/or Utility Model protection for said invention in all countries, all without further consideration but at the expense of said Assignee, its successors, assigns, nominees, or other legal representatives.

ASSIGNOR hereby grants to the law firm of GREENBERG TRAURIG, LLP of Chicago, Illinois, authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent Office or the Patent Office of any foreign country.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 16 day of November, 2011.

Jonathan Lim (signature)

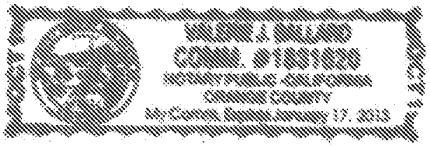
NOTARIAL CERTIFICATE

State of: California)
) SS.
County of: Orange)

Subscribed and sworn to (or affirmed) before me on this 16th day of November, 2011, by Jonathan Lim proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

WITNESS my hand and official seal.

CHI 56,169,440v34



PTO/SB/80 (01-06)
Approved for use through 12/31/2008. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

☒ Practitioners associated with the Customer Number: 34018

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

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

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

☐ The address associated with Customer Number:

OR

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

Assignee Name and Address:
Universal Electronics Inc.
6101 Gateway Drive
Cypress, CA 90630-4841

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

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

Signature		Date July 21, 2006
Name	Patrick H. Hayes	Telephone (714) 820-1000
Title	Vice President of Core Technology	

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

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

American LegalNet, Inc.
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Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Attorney Docket Number:	81230.156US1

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility application filing	1011	1	380	380
Utility Search Fee	1111	1	620	620
Utility Examination Fee	1311	1	250	250
Pages:				
Claims:				
Claims in excess of 20	1202	5	60	300
Miscellaneous-Filing:				
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		1550

Electronic Acknowledgement Receipt

EFS ID:	11430024
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	17-NOV-2011
Filing Date:	
Time Stamp:	14:16:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1550
RAM confirmation Number	528
Deposit Account	502428
Authorized User	

File Listing:

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

1	Transmittal of New Application	UtilityTransmittal81230156US1.pdf	349917 df5f6b95b928247edf6a3a80b2a0ccbb63820f05	no	1
Warnings:					
Information:					
2	Application Data Sheet	ADS81230156US1.pdf	1031690 87c090cd456d5bd768209d047569587f760b0c52	no	4
Warnings:					
Information:					
3		Spec81230156US1.pdf	147053 746d01d42c54d1c16f10c73d625109b6ae9041c2	yes	29

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Specification	1	22
	Claims	23	28
	Abstract	29	29

Warnings:					
Information:					
4	Drawings-only black and white line drawings	Drawings81230156US1.pdf	217899 ab922385aa8823fba6bfc2eb7e81df11d3748fb6	no	8
Warnings:					
Information:					
5	Oath or Declaration filed	Declaration81230156US1.pdf	341301 6379b3739411ea5c40b67ce3b8ffe096897f59c1	no	1
Warnings:					
Information:					
6	Assignee showing of ownership per 37 CFR 3.73(b).	Stat373b81230156US1.pdf	754939 30493ecfced5b0ae4b0f709c731e73a06943d8f0	no	3
Warnings:					
Information:					
7	Power of Attorney	UEIPOA.pdf	306989 7596e8484e7b69711739c5efeb79249672baaa521	no	1
Warnings:					
Information:					

8	Fee Worksheet (SB06)	fee-info.pdf	36412 a293a124e49dcfe828b630c06310a50ddf35cb72	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	3186200	

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.

SCORE Placeholder Sheet for IFW Content

Application Number: 13298629 Document Date: 11/17/2011

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

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 13/298,629

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	380
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	620
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	250
TOTAL CLAIMS (37 CFR 1.16(i))	25 minus 20 =	* 5			OR	x 60 =	300
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*				x 250 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1550

APPLICATION AS AMENDED - PART II

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

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

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

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	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/298,629	11/17/2011	2612	1550	81230.156US1	25	2

CONFIRMATION NO. 2127

34018
GREENBERG TRAURIG, LLP (CHI)
77 WEST WACKER DRIVE
SUITE 3100
CHICAGO, IL 60601-1732

FILING RECEIPT

OC000000051222942

Date Mailed: 12/01/2011

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**

Applicant(s)

Jonathan Lim, Cypress, CA;

Assignment For Published Patent Application

Universal Electronics Inc., Cypress, CA

Power of Attorney: The patent practitioners associated with Customer Number 34018

Domestic Priority data as claimed by applicant

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.)

If Required, Foreign Filing License Granted: 11/29/2011

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/298,629**

Projected Publication Date: 05/23/2013

Non-Publication Request: No

Early Publication Request: No

Title

SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE

Preliminary Class

340

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).

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

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

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

NOT GRANTED

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

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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
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/298,629	11/17/2011	Jonathan Lim	81230.156US1

CONFIRMATION NO. 2127

34018
GREENBERG TRAURIG, LLP (CHI)
77 WEST WACKER DRIVE
SUITE 3100
CHICAGO, IL 60601-1732

POA ACCEPTANCE LETTER

OC000000051222962

Date Mailed: 12/01/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/17/2011.

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.

/tmekuria/

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

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	13298629
	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Dorvil, Richemond
	Attorney Docket Number	81230.156US1

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4703359		1987-10-27	Rumbolt et al.	
	2	4959810		1990-09-25	Darbee et al.	
	3	5255313		1993-10-19	Darbee	
	4	5515052		1996-05-07	Darbee	
	5	5552917		1996-09-03	Darbee	
	6	5614906		1997-03-25	Hayes et al.	
	7	7093003		2006-08-15	Yuh et al.	
	8	7612685		2009-11-03	Harris	
If you wish to add additional U.S. Patent citation information please click the Add button.						

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	13298629
	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Dorvil, Richemond
	Attorney Docket Number	81230.156US1

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20100321201	A1	2010-12-23	Huang et al.	
	2	20050114141	A1	2005-05-26	Grody	
	3	20070118381	A1	2007-05-24	Hsu et al.	
	4	20110289113	A1	2011-11-24	Arling et al.	
	5	20070005370	A1	2007-01-04	Elshout	
	6	20090292375	A1	2009-11-26	Thompson	
If you wish to add additional U.S. Published Application citation information please click the Add button.						

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐
If you wish to add additional Foreign Patent Document citation information please click the Add button								
NON-PATENT LITERATURE DOCUMENTS								

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	13298629
	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Dorvil, Richemond
	Attorney Docket Number	81230.156US1

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	International Search Report and Written Opinion of the International Searching Authority, dated December 28, 2012, Inter. Appl No. PCT/US 12/61475, 12 pgs.	☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	13298629
	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Dorvil, Richemond
	Attorney Docket Number	81230.156US1

CERTIFICATION STATEMENT

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

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

OR

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

☒ See attached certification statement.

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

☐ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Gary R. Jarosik/	Date (YYYY-MM-DD)	2013-02-20
Name/Print	Gary R. Jarosik	Registration Number	35,906

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

Privacy Act Statement

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

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

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

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

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

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

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

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

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

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

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jonathan Lim	)	
	)	
Serial No.: 13/298,629	)	Examiner: Dorvil, Richemond
	)	
Filed: November 17, 2011	)	Group Art Unit: 2658
	)	
Title: SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE	)	Docket No.: 81230.156US1

CERTIFICATION STATEMENT

FILED VIA EFS-WEB

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

The Information Disclosure Statement being filed concurrently herewith should be considered because it is submitted, pursuant to 37 C.F.R. §1.97(b)(3) before the mailing of a first Office Action, therefore, no fee is required.

Respectfully submitted,

Date: February 20, 2013

By: _____

Gary R. Jarosik, Reg. No. 35, 906
Greenberg Traurig, LLP
77 W. Wacker Drive - Suite 3100
Chicago, Illinois 60601
(312) 456-8400

Certificate of Electronic Transmission: The undersigned hereby certifies that this document and its attachments are being transmitted electronically via EFS-Web to the United States Patent and Trademark Office on this 20th day of February, 2013.

By: /Cynthia Tapia/
Name: Cynthia Tapia

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By

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
GARY R. JAROSIK
GREENBERG TRAURIG, LLP
77 W. WACKER DR., SUITE 3100
CHICAGO, IL 60601-1732

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 81230156PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US 12/61475	International filing date *(day/month/year)* 23 October 2012 (23.10.2012)
Applicant UNIVERSAL ELECTRONICS INC.	

Date of mailing *(day/month/year)* 28 DEC 2012

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes, 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(*a*) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

   ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.

   ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices, unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public.

   Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

   In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

   For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450	Authorized officer Lee W. Young
Facsimile No. 571-273-3201	Telephone No. PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2010)

ENTERED DATE: 1/08/13

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 81230156PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US 12/61475	International filing date *(day/month/year)* 23 October 2012 (23.10.2012)	(Earliest) Priority Date *(day/month/year)* 17 November 2011 (17.11.2011)
Applicant UNIVERSAL ELECTRONICS INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

☒ the international application in the language in which it was filed.

☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 3

☐ as suggested by the applicant.

☒ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 12/61476

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G10L 15/22; G10L 21/06 (2012.01)
USPC - 704/275
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
USPC: 704/275; IPC(8): G10L 15/22; G10L 21/06 (2012.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 704/275, 270, E15.045; IPC(8): G10L 15/22; G10L 21/06 (2012.01) (see terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase(All), GOOGLE SCHOLAR
terms: remote control, application software, app, brand, model, library, collection, codeset, speech, voice, spoken, recognition, actuation, scheme, UI, IR, infrared, activat, microphon, sound, input, receiver, sensing, detecting, capture, brand, model, download, TV, television

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/0321201 A1 (Huang et al.) 23 December 2010 (23.12.2010), claim 8, 15, fig 1-2, para [0005], [0031], [0035]-[0038], [0066]-[0068], [0080], [0129]-[0130], [0142], [0153], [0203], [0210].	1-25
X	US 2005/0114141 A1 (Grody) 26 May 2005 (26.05.2005), fig. 2, para [0053], [0059], [0064]-[0072], [0083]-[0086], [0093], [0135], [0151], [0160].	1-14, 16-25
Y	US 2007/0118381 A1 (Hsu et al.) 24 May 2007 (24.05.2007) para [0018]-[0019].	1-25
Y, P	US 2011/0289113 A1 (Arling et al.) 24 November 2011 (24.11.2011) para [0012]-[0017], [0019], [0024].	1-25
A	US 2007/0005370 A1 (Elshout) 04 January 2007 (04.01.2007) entire document	1-25

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
04 December 2012 (04.12.2012)	28 DEC 2012

Name and mailing address of the ISA/US	Authorized officer:
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: GARY R. JAROSIK
GREENBERG TRAURIG, LLP
77 W. WACKER DR., SUITE 3100
CHICAGO, IL 60601-1732

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	28 DEC 2012
Applicant's or agent's file reference 81230156PCT	FOR FURTHER ACTION See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 12/61475	23 October 2012 (23.10.2012)	17 November 2011 (17.11.2011)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G10L 15/22; G10L 21/06 (2012.01)
USPC - 704/275

Applicant UNIVERSAL ELECTRONICS INC.

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to th IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	04 December 2012 (04.12.2012)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 12/61475

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (*means*)

      ☐ on paper

      ☐ in electronic form

   b. (*time*)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 12/61475

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	NONE	YES
	Claims	1-25	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-25	NO
Industrial applicability (IA)	Claims	1-25	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-25 lack novelty under PCT Article 33(2) as being anticipated by US 2010/0321201 A1 to Huang et al. (hereinafter 'Huang').

As per claims 1 and 13, Huang discloses a system (fig. 1, para [0031]) implementing a method for configuring a controlling device to command functional operations of a target appliance (e.g., PDA device 1150 is adapted to provide wireless control of consumer appliances such as home entertainment equipment 1120, para [0031]), the system comprising: a processing device (inherent element of PDA device 1150, para [0031]) having associated instructions stored on a non-transient readable media which instructions (memory .. comprising program of instructions for performing the method, claim 15), when executed by the processing device, cause a speech recognition engine to use received voice data indicative (para [0068]) of at least a brand (para [0129]) of the target appliance to identify within a library of codesets (database of IR codes, para [0035]) at least one codeset that is cross-referenced to the brand of the target appliance (para [0142]) and to cause the at least one codeset to be provisioned to the controlling device for use in commanding functional operations of the target appliance (para [0153], [0157]).

As per claims 2 and 16, Huang further discloses wherein the speech recognition engine functions to identify a plurality of codesets that are cross-referenced to the brand of the appliance (para [0068], [0142], [0153]) and the instructions further cause the speech recognition engine to use received voice data indicative of a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to a model of the target appliance whereupon the at least one codeset that is provisioned to controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance (para [0130], [0203]).

As per claim 3, Huang further discloses wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data (inherent element of the device that runs IBM ViaVoice brand software, para [0068]).

As per claims 4 and 17, Huang further discloses wherein the controlling device comprises a memory having stored therein the library of codesets (database that is burned onto the non-volatile memory of the PDA 1150, fig. 1, para [0210]).

As per claim 5, Huang further discloses wherein the controlling device comprises a processing device (inherent element of PDA device 1150, para [0031]) and instructions for providing the speech recognition engine (para [0068]).

As per claim 6, Huang further discloses wherein the speech recognition engine is executed on a computing device remote from the controlling device (these functions may be performed by software stored locally, e.g., on .. host computer 1152, fig. 2, para [0037], [0068]).

As per claims 7-8 and 18, Huang further discloses wherein the library of codesets is stored remotely from the controlling device (services and data that are located on a hosted site 1106, fig. 2, are represented by the remote control software services) and the at least one codeset is provisioned to the controlling device by being downloaded thereto (IR code databases .. available for download, para [0037]).

As per claims 9 and 22, Huang further discloses wherein the controlling device has a plurality of function keys activatable to cause a transmission of a command to the target appliance (para [0039], [0066]) and wherein the instructions cause the speech recognition engine to use voice data indicative of a command to be assigned to a function key of the controlling device to identify within the at least one codeset command data that is cross-referenced to the command (para [0066], [0068]) and to cause the command data of the at least one codeset to be used by the controlling device in response to the function key being subsequently activated to cause a transmission of a command to the target device (para [0068], [0130]).

As per claims 10 and 23, Huang further discloses the instructions cause the speech recognition engine to use voice data indicative of a command to be transmitted from the controlling device to identify within the at least one codeset command data that is cross-referenced to the command (para [0066], [0068]) and to cause the command data of the at least one codeset to be used to transmit a command to the target appliance (para [0066]).

As per claims 11 and 24, Huang further discloses wherein the instructions additionally cause location data to be considered when identifying the at least one codeset that is cross-referenced to the brand of the target appliance (e.g., region, para [0142]).

---(Please See Supplemental Box)---

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of
Box V. 2 Citations and Explanations

As per claims 12 and 25, Huang further discloses wherein the instructions additionally cause location data to be considered when identifying the at least one codeset that is cross-reference to the model of the target appliance (para [0142]).

As per claim 14, Huang further discloses the instructions are downloaded to the controlling device in a downloadable app (software .. available for download, para [0037]).

As per claim 18, Huang further discloses wherein the controlling device comprises one of a smart phone (extended-functionality mobile phones, para [0005]) or a tablet computing device (para [0005], [0066]).

As per claim 19, Huang further discloses wherein the processing device comprises one or more computing devices located remotely from the controlling device (host computer 1152, fig. 2, para [0037]).

As per claim 20, Huang further discloses wherein the controlling device comprises a memory having stored therein the library of codesets (database that is burned onto the non-volatile memory of the PDA 1150, fig. 1, para [0210]).

As per claim 21, Huang further discloses wherein the library of codesets is stored remotely from the controlling device (services and data that are located on a hosted site 1106, fig. 2, are represented by the remote control software services) and the at least one codeset is provisioned to the controlling device by being downloaded thereto (IR code databases .. available for download, para [0037]).

Claims 1-25 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

SEARCH HISTORY

Application Number	PCT/US 12/61475
Search Conducted By	PR
Search Approved By	RLP

US/IPC Classifications Searched	USPC: 704/275; IPC(8): G10L 15/22; G10L 21/06 (2012.01)
Date Conducted	03 December 2012 (03.12.2012)

Documentation Searched	USPC: 704/275, 270, E15.045; IPC(8): G10L 15/22; G10L 21/06 (2012.01) (keyword limited; terms below)
Search Terms Used	remote control, application software, app, brand, model, library, collection, codeset, speech, voice, spoken, recognition, actuation
Date Conducted	03 December 2012 (03.12.2012)

Electronic Database Searched	PatBase
Files Searched	Full-text: AU BE BR CA CH CN DE DK EP ES FI FR GB IN JP KR SE TH TW US WO Bibliographic: (Europe) AT BA BE BG CH CS CY CZ DD DK EE ES FI GE GR HR HU IE IS IT LT LU LV MC MD MT NL NO PL PT RO RS SE SI SK SM TR UA YU (Asia) EA GC HK ID IL IN KZ MN MY PH RU SG SU TH TJ TW UZ VN (North America) CA CR CU DO GT HN MX NI PA SV TT (South America) AR BR CL CO EC PE UY (Australasia) AU NZ (Africa) AP DZ EG KE MA MW OA ZA ZM ZW
Date Conducted	04 December 2012 (04.12.2012)
Search Logic:	
03 December 2012 1) IC=G10L15/22 (5021) 2) IC=G10L21/06 (1839) 3) UC=704/275 (2296)	

4) UC=704/270 (2651)5) UC=704/E15.045 (1038)
5) UC=704/E15.045 (1038)
6) 1 or 2 or 3 or 4 or 5 (10185)
7) 6 and (remote control*) (792)
8) 6 and ((application% w2 software) or app%) (937)
9) 6 and (brand% w9 model%) (16)
10) 6 and ((library or collection%) w3 (codeset% or (code set%))) (0)
11) (library or collection%) w3 (codeset% or (code set%)) (26)
12) 6 and (codeset% or (code set%)) (33)
13) 6 and ((speech or voice or spoken) w3 (recogni* or actuat* or control*)) (7080)
14) 7 and 8 and 13 (113)
04 December 2012
1) (codeset% or (cod* w3 (set% or scheme% or UI or IR or infrared))) and (remote* w9 control*) (11594)
2) 1 and ((voice% or spoken or speech*) w3 (recogni* or actuat* or control* or activat*)) (1628)
3) 1 and (microphon* or ((voice% or sound% or speech*) w3 (input* or receiv* or sens* or detect* or captur*))) (3146)
4) 1 and (brand% w9 model%) (229)
5) 1 and download* (3983)
6) 1 and ((application% w2 software) or app%) (2631)
7) 1 and (TV or television% or DVD% or VCR% or (set top box~) or STB% or (AV receiv*)) (6040)
8) 1 and (phone% or cellphone% or smartphone% or radiophone% or telephone%) (6349)
9) 1 and (memory or storage%) (9633)
10) 1 and (librar* or database% or server%) (5918)
11) 2 and 3 and 4 (60)
12) 5 and 6 and 7 and 8 and 9 and 10 (1043)
13) 12 and 2 and 3 (346)
14) 13 and (brand% and model%) (151)

Electronic Database Searched	PatBase
Files Searched	Full-text: AU BE BR CA CH CN DE DK EP ES FI FR GB IN JP KR SE TH TW US WO Bibliographic: (Europe) AT BA BE BG CH CS CY CZ DD DK EE ES FI GE GR HR HU IE IS IT LT LU LV MC MD MT NL NO PL PT RO RS SE SI SK SM TR UA YU (Asia) EA GC HK ID IL IN KZ MN MY PH RU SG SU TH TJ TW UZ VN (North America) CA CR CU DO GT HN MX NI PA SV TT (South America) AR BR CL CO EC PE UY (Australasia) AU NZ (Africa) AP DZ EG KE MA MW OA ZA ZM ZW
Date Conducted	04 December 2012 (04.12.2012)

Search Logic:

03 December 2012
1) IC=G10L15/22 (5021)
2) IC=G10L21/06 (1839)
3) UC=704/275 (2296)
4) UC=704/270 (2651)5) UC=704/E15.045 (1038)
5) UC=704/E15.045 (1038)
6) 1 or 2 or 3 or 4 or 5 (10185)
7) 6 and (remote control*) (792)
8) 6 and ((application% w2 software) or app%) (937)
9) 6 and (brand% w9 model%) (16)
10) 6 and ((library or collection%) w3 (codeset% or (code set%))) (0)
11) (library or collection%) w3 (codeset% or (code set%)) (26)
12) 6 and (codeset% or (code set%)) (33)
13) 6 and ((speech or voice or spoken) w3 (recogni* or actuat* or control*)) (7080)
14) 7 and 8 and 13 (113)

04 December 2012
1) (codeset% or (cod* w3 (set% or scheme% or UI or IR or infrared))) and (remote* w9 control*) (11594)
2) 1 and ((voice% or spoken or speech*) w3 (recogni* or actuat* or control* or activat*)) (1628)
3) 1 and (microphon* or ((voice% or sound% or speech*) w3 (input* or receiv* or sens* or detect* or captur*))) (3146)
4) 1 and (brand% w9 model%) (229)
5) 1 and download* (3983)
6) 1 and ((application% w2 software) or app%) (2631)
7) 1 and (TV or television% or DVD% or VCR% or (set top box~) or STB% or (AV receiv*)) (6040)
8) 1 and (phone% or cellphone% or smartphone% or radiophone% or telephone%) (6349)
9) 1 and (memory or storage%) (9633)
10) 1 and (librar* or database% or server%) (5918)
11) 2 and 3 and 4 (60)
12) 5 and 6 and 7 and 8 and 9 and 10 (1043)
13) 12 and 2 and 3 (346)
14) 13 and (brand% and model%) (151)

END OF SEARCH HISTORY

Electronic Database Searched	Google
Files Searched	Google Scholar
Date Conducted	03 December 2012 (03.12.2012)
Search Logic:	
"remote control" 701,000 "remote control" microphone 29,700 "remote control" microphone codeset 163 "remote control" microphone codeset brand model 30 "remote control" microphone codeset brand model app 25 "remote control" speech OR voice codeset brand model app 2,070 "remote control" speech OR voice microphone codeset brand model app 19 "remote control" speech OR voice microphone codeset brand model 24 "remote control" speech OR voice microphone codeset brand model download 11 "remote control" microphone codeset brand model download 16 "remote control" microphone codeset brand model download command 15 "remote control" microphone codeset brand model download appliance 9 "remote control" microphone OR speech OR voice codeset brand model download appliance 16 remote control microphone OR speech OR voice codeset brand model download appliance 28	

Electronic Database Searched	Patbase.com
Files Searched	Full-text: AU BE BR CA CH CN DE DK EP ES FI FR GB IN JP KR SE TH TW US WO Bibliographic: (Europe) AT BA BE BG CH CS CY CZ DD DK EE ES FI GE GR HR HU IE IS IT LT LU LV MC MD MT NL NO PL PT RO RS SE SI SK SM TR UA YU (Asia) EA GC HK ID IL IN KZ MN MY PH RU SG SU TH TJ TW UZ VN (North America) CA CR CU DO GT HN MX NI PA SV TT (South America) AR BR CL CO EC PE UY (Australasia) AU NZ (Africa) AP DZ EG KE MA MW OA ZA ZM ZW
Date Conducted	09 December 2012 (09.12.2012)
Search Logic:	

Search 1: (UC=(704/275 or 704/270 or 704/E15.045)) (Results 4744)

Search 2: (IC=(G10L15/22 or G10L21/06)) (Results 6706)

Search 3:	1 or 2 (Results 10195)
Search 4:	3 and ((speech or voice or speak) w4 (activat* or control* or operat*)) (Results 2641)
Search 9:	4 and ((device* or appliance* or electronic* or television* or radio or tv or stereo or entertainment*) w10 (speech or voice or speak)) (Results 1598)
Search 10:	5 and (brand w10 (device* or appliance* or electronic* or television* or radio or tv or stereo or entertainment*)) (Results 1)
Search 11:	3 and (brand w10 (device* or appliance* or electronic* or television* or radio or tv or stereo or entertainment*)) w10 (voice* or speech* or speak*) (Results 0)
Search 12:	((voice* or speech* or speak*) w10 brand*) w10 (device* or appliance* or electronic* or television* or radio or tv or stereo or entertainment*) (Results 10)
Search 13:	brand* w10 (device* or appliance* or electronic* or television* or radio or tv or stereo or entertainment*) (Results 3010)
Search 14:	(program* or operat* or control*) w10 (device* or appliance* or electronic* or television* or radio or tv or stereo or entertainment*) (Results 100000)
Search 15:	(voice* or speech* or speak* or (speech w3 engine*) or (voice control*) or (voice activat*)) (Results 100000)
Search 16:	13 and 14 and 15 (Results 96)
Search 17:	16 and (codeset or (code set) or librar*) (Results 11)
Search 18:	((smart or mobile or cellular or wireless or mobile) w3 (phone* or device*)) w10 (control* or operat* or program* or command*) w10 (device* or appliance* or electronic* or television* or radio or tv or stereo or entertainment*) (Results 37376)
Search 19:	18 and 15 (Results 5219)
Search 20:	19 and 13 (Results 15)
Search 21:	(PN=(20100321201)) (Results 0)
Search 22:	(PN=(US20100321201)) (Results 1)
Search 23:	(PN=(US20100321201)) (Results 1)
Search 21:	(codeset or (code set) or librar*) near (brand* or type or manufacturer*) (Results 787)
Search 25:	21 and 18 (Results 5)
Search 26:	(remote w3 control*) (Results 100000)
Search 27:	26 and 21 (Results 24)
Search 28:	15 and 27 (Results 5)

Electronic Acknowledgement Receipt

EFS ID:	15007377
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Cynthia Tapia
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	20-FEB-2013
Filing Date:	17-NOV-2011
Time Stamp:	17:35:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	081230_156US1Trans.pdf	185146 f22ecb7a6e1a577494a6188a310278b09b4a6f82	no	2

Warnings:	
Information:	

2	Information Disclosure Statement (IDS) Form (SB08)	081230_156US1IDS.pdf	64952 70c016b905d62aa3b5b91bac663dc515f2ff67fd	no	5
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Transmittal Letter	081230_156US1Cert.pdf	97393 879ce8c05712b68200a8e16eb71ba9a370101cf0	no	1
Warnings:					
Information:					
4	Non Patent Literature	081230_156US1NPL.pdf	4387282 7df8cb770632ebc19f6ec87f86e1af381b6517e3	no	12
Warnings:					
Information:					
		Total Files Size (in bytes):	4734773		

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<u>New Applications Under 35 U.S.C. 111</u>
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.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
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.

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

Doc Code: TRAN.LET
Document Description: Transmittal Letter

PTO/SB/21 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	13/298,629
Filing Date	November 17, 2011
First Named Inventor	Jonathan Lim
Art Unit	2658
Examiner Name	Dorvil, Richemond
Attorney Docket Number	81230.156US1

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☑ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☑ Other Enclosure(s) (please Identify below):
  - Certification Statement
  - 1 NPL Ref.

Remarks

Filed via EFS Web

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Greenberg Traurig, LLP		
Signature	/Gary R. Jarosik/		
Printed name	Gary R. Jarosik		
Date	February 20, 2013	Reg. No.	35,906

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	/Cynthia Tapia/		
Typed or printed name	Cynthia Tapia	Date	February 20, 2013

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 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, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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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.
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/298,629	11/17/2011	Jonathan Lim	81230.156US1

CONFIRMATION NO. 2127

34018
GREENBERG TRAURIG, LLP (CHI)
77 WEST WACKER DRIVE
SUITE 3100
CHICAGO, IL 60601-1732

PUBLICATION NOTICE

OC000000061459783

Title:SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE

Publication No.US-2013-0132094-A1
Publication Date:05/23/2013

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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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 10/03/2013

GREENBERG TRAURIG, LLP (CHI)
77 WEST WACKER DRIVE
SUITE 3100
CHICAGO, IL 60601-1732

EXAMINER	
ESTES, ERNEST LANGSTON	
ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
10/03/2013	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):

chiipmail@gtlaw.com
escobedot@gtlaw.com
jarosikg@gtlaw.com

Office Action Summary	Application No. 13/298,629	Applicant(s) LIM, JONATHAN	
	Examiner ERNEST ESTES	Art Unit 2658	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* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

1)☒ Responsive to communication(s) filed on *11/17/2011*.

☐ 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) *1-25* 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) *1-25* 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 *11/17/2011* 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/08) Paper No(s)/Mail Date _____.

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

4) ☐ Other: _____.

DETAILED ACTION

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

Claim Rejections - 35 USC § 102

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

> A person shall be entitled to a patent unless –
>
> (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1, 8-9, 11, 13-15, 22 and 24 are rejected under 35 U.S.C. 102(b) as being unpatentable over Huang (Pub. No.: US2009/0254778 A1).

Regarding claim 1, Huang teaches a method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross-referenced to the brand of the target appliance (paragraph [0028] discloses using speech recognition as user input and paragraph [0155] discloses taking/receiving user input indicative of a manufacture/brand to identify a codeset cross-referenced to the brand of the target device); and

causing the at least one codeset to be provisioned to the controlling device for use in commanding functional operations of the target appliance (paragraph [0152] discloses that the appropriate codeset is selected to be used to control the selected/target device, i.e. the appropriate codeset is provisioned to enable control of the target/selected device via commands).

Regarding claim 8, Huang teaches the method of configuration of claim 1 and further teaches wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto (at least paragraphs [0037], [0039], [0114], [0128], [0152] and [0227] disclose the download of remotely stored codesets to the controlling device).

Regarding claim 9, Huang teaches the method of configuration of claim 1 and further teaches wherein the controlling device has a plurality of function keys activatable to cause a transmission of a command to the target appliance and wherein the method comprises receiving at the speech recognition engine voice data indicative of a command to be assigned to a function key of the controlling device whereupon the speech recognition engine uses the voice data indicative of a command to be assigned to a function key to identify within the at least one codeset command data that is cross-referenced to the command and causing the command data of the at least one codeset to be used by the controlling device in response to the function key being subsequently activated to cause a transmission of a command to the target device (paragraph [0128]

discloses the reassignment of functions/commands to activatable function keys based on user's input/selection which paragraph [0028] already teaches can be in the form of speech recognized voice data).

Regarding claim 11, Huang teaches the method of configuration of claim 1 and further teaches wherein location data is additionally utilized in the process of identifying the at least one codeset that is cross-referenced to the brand of the target appliance (paragraph [0317] discloses the use of a region/location data to present the most likely codeset to the user during the codeset identification process to improve usability).

Regarding claim 13, Huang teaches a system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a speech recognition engine to use received voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross- referenced to the brand of the target appliance and to cause the at least one codeset to be provisioned to the controlling device for use in commanding functional operations of the target appliance (paragraph [0028] discloses using speech recognition as user input, paragraph [0155] discloses taking/receiving user input indicative of a manufacture/brand to identify a codeset cross-referenced to the brand of the target device, paragraph [0152] discloses the that the appropriate codeset is selected to be

used to control the selected/target device, i.e. the appropriate codeset is provisioned to enable control of the target/selected device via command and paragraphs [0032-0033] disclose that these functions are implemented on software/computer executable on a processing device/PDA).

Regarding claim 14, Huang teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions are downloaded to the controlling device in a downloadable app (figure 3 discloses that the PDA software/applications which comprise instruction to implement the remote configuration process are stored/downloaded to the hand-held device).

Regarding claim 15, Huang teaches the system for configuring a controlling device of claim 14 and further teaches wherein the controlling device comprises one of a smart phone or a tablet computing device (paragraphs [0005] and [0030] disclose that the method of the invention is drawn towards implementing remote configuration on various types of hand-held controlling devices including an extended-functionality/smart phone and a tablet computing device).

Regarding claim 22, Huang teaches the system for configuring a controlling device of claim 13 and further teaches wherein the controlling device has a plurality of function keys activatable to cause a transmission of a command to the target appliance and wherein the instructions cause the speech recognition engine to use voice data

indicative of a command to be assigned to a function key of the controlling device to identify within the at least one codeset command data that is cross-referenced to the command and to cause the command data of the at least one codeset to be used by the controlling device in response to the function key being subsequently activated to cause a transmission of a command to the target device (paragraph [0128] discloses the reassignment of functions/commands to activatable function keys based on user's input/selection which paragraph [0028] already teaches can be in the form of speech recognized voice data).

Regarding claim 24, Huang teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions additionally cause location data to be considered when identifying the at least one codeset that is cross-referenced to the brand of the target appliance (paragraph [0317] discloses the use of a region/location data to present the most likely codeset to the user during the codeset identification process to improve usability)

Claim Rejections - 35 USC § 103

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

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

Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 2-7, 12, 16-21 and 25 rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (Pub. No.: US2009/0254778 A1) in further view of Harris (7,944,370 B1).

Regarding claim 2, Huang teaches the method of configuration of claim 1 wherein the speech recognition engine identifies a plurality of codesets that are cross-referenced to the brand of the appliance (paragraph [0027]) but fails to explicitly teach receiving at the speech recognition engine voice data indicative of at least a model of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to the model of the target appliance and wherein the at least one codeset that is provisioned to controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance. However in the same field of remote control devices Harris teaches receiving data indicative of at least a model of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to the model of the target appliance and wherein the at least one codeset that is provisioned to controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance (Harris figure 12 discloses the user input, which Huang teaches can be in the form of speech recognition data, of a model of

a target device which is used by the receiving system to determine configuration data/codesets that are cross-referenced with the particular model).

It would have been obvious to one of ordinary skill in the art at the time of the invention to include receiving user input/data, which Huang already teaches can be speech, indicating the model number of the target appliance in order to improve the user experience by narrowing down the candidate codesets in order to minimize errors and user inconvenience when selecting the appropriate codeset (Harris, col 2 lines 31-35).

Regarding claim 3, the combination of Huang and Harris teaches the method of configuration of claim 2 and further teaches wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data (Huang, paragraphs [0005] and [0030] disclose that the method of the invention is drawn towards implementing remote configuration on various types of hand-held devices including an extended-functionality phone which obviously possess a microphone for receiving voice input and data).

Regarding claim 4, the combination of Huang and Harris teaches the method of configuration of claim 3 and further teaches wherein the controlling device comprises a memory having stored therein the library of codesets (Huang, figure 5 discloses a User IR Code DB 544 which is a codeset stored on the controlling device).

Regarding claim 5, the combination of Huang and Harris teaches the method of configuration of claim 4 and further teaches wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine (Huang, figure 5 discloses a User Input 510 which paragraph [0068] explain can include speech recognition from software resident on the controlling device/PDA).

Regarding claim 6, the combination of Huang and Harris teaches the method of configuration of claim 3 and while a speech recognition engine executing on a computing device remote from the controlling device is not explicitly taught, server-based/off-board/remote speech recognition is well known within the art speech processing, especially for portable devices with restricted processing capabilities. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the onboard speech recognition of Huang with the well-known practice of using an off-board/remotely located or server-based speech recognition since the motivation of such a combination would be well known. Specifically, the motivation for using a computing device remote from the controlling device to execute speech recognition is to take advantage of more powerful processing available on larger computers/servers in order to enable more accurate speech recognition without consuming excessing power, computing resources and/or physical space on a hand-held/portable device that would otherwise be required for comparable performance.

Regarding claim 7, the combination of Huang and Harris teaches the method of configuration of claim 6 and further teaches wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto (Huang, figure 3 discloses the remote storage of an IR Database/codeset).

Regarding claim 12, the combination of Huang and Harris teaches the method of configuration of claim 2 and further teaches wherein location data is additionally utilized in the process of identifying the at least one codeset that is cross-reference to the model of the target appliance (Huang paragraph [0317] teaches the use of region/location data in the process of identifying codesets for a target appliance and Harris figure 12 discloses the user input of a manufacture/brand and model of a target device which is used by the receiving system to determine/retrieve configuration data/codesets that are cross-referenced with a particular combination of brand and model).

Regarding claim 16, the combination of Huang and Harris teaches the system for configuring a controlling device of claim 13 and further teaches wherein the speech recognition engine functions to identify a plurality of codesets that are cross-referenced to the brand of the appliance and the instructions further cause the speech recognition engine to use received voice data indicative of a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to a model of the target appliance whereupon the at least one codeset that is provisioned to

controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance (Harris figure 12 discloses the user input, which Huang teaches can be in the form of speech recognition data, of a brand/manufacturer and model of a target device which is used by the receiving system to determine configuration data/codesets that are cross-referenced with a particular combination of brand/manufacture and model that are subsequently be used for provisioning/programming).

Regarding claim 17, the combination of Huang and Harris teaches the system for configuring a controlling device of claim 16 and further teaches wherein the controlling device comprises a memory having stored therein the library of codesets (Huang, figure 5 discloses a User IR Code DB 544 which is a codeset stored in memory on the controlling device).

Regarding claim 18, the combination of Huang and Harris teaches the system for configuring a controlling device of claim 17 and further teaches wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto (Huang, figure 3 discloses the remote storage of an IR Database/codeset for downloading to the controlling device).

Regarding claim 19, the combination of Huang and Harris teaches the system for configuring a controlling device of claim 13 and while limitation that the processing device comprises one or more computing devices located remotely from the controlling device is not explicitly taught, server-based/off-board/remote speech recognition engines or processing devices are well known within the art speech processing, especially for portable devices with restricted processing capabilities. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the onboard speech recognition engine of Huang with the well-known practice of using off-board/remotely located speech recognition engines or processing devices since the motivation of such a combination would be well known. Specifically, the motivation for using a computing device remote from the controlling device to execute speech recognition is to take advantage of more powerful processing available on larger computers/servers in order to enable more accurate speech recognition without consuming excessing power, computing resources and/or physical space on a hand-held/portable device that would otherwise be required for comparable performance.

Regarding claim 20, the combination of Huang and Harris teaches the system for configuring a controlling device of claim 19 and further teaches wherein the controlling device comprises a memory having stored therein the library of codesets (Huang, figure 5 discloses a User IR Code DB 544 which is a codeset stored in memory on the controlling device).

Regarding claim 21, the combination of Huang and Harris teaches the system for configuring a controlling device of claim 19 and further teaches wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto (Huang, figure 3 discloses the remote storage of an IR Database/codeset for downloading to the controlling device).

Regarding claim 25, the combination of Huang and Harris teaches the system for configuring a controlling device of claim 16 and further teaches wherein the instructions additionally cause location data to be considered when identifying the at least one codeset that is cross- reference to the model of the target appliance (Harris figure 12 discloses the user input of a manufacturer/brand and model of a target device which is used by the receiving system to determine configuration data/codesets that are cross-referenced with the particular model and Huang teaches using region/location data to narrow down cross-referenced codesets).

6. Claims 10 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (Pub. No.: US2009/0254778 A1) in further view of Kimura (Pat. No.: 5,247,580).

Regarding claim 10, Huang teaches the method for configuring a controlling device of claim 1 but fails to explicitly teach receiving at the speech recognition engine voice data indicative of a command to be transmitted from the controlling device

whereupon the speech recognition engine uses the voice data indicative of a command to be transmitted to identify within the at least one codeset command data that is cross-referenced to the command and causing the command data of the at least one codeset to be used to transmit a command to the target appliance. However in the same field of remote control devices, Kimura teaches receiving at the speech recognition engine voice data indicative of a command to be transmitted from the controlling device whereupon the speech recognition engine uses the voice data indicative of a command to be transmitted to identify within the at least one codeset command data that is cross-referenced to the command and causing the command data of the at least one codeset to be used to transmit a command to the target appliance (Kimura figures 1 and 3 and col 3 lines 25-45 disclose receiving a voice indicative of a command and in response transmitting a compatible command or command form the cross-referenced codeset from the controlling device to a target/controlled device).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of initiating a command function or remote command of Huang to include the option of voice activation of as taught by Kimura in order to increase usability and convenience by enabling hands-free operation.

Apparatus claim 23 and method claim 10 are related as apparatus and the method of using same, with each claimed element's function corresponding to the claimed method step. Accordingly, claim 23 is similarly rejected under the same rationale as applied above with respect to method claim 10.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is listed on the Notice of References Cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERNEST ESTES whose telephone number is (571)270-3856. The examiner can normally be reached on Monday-Friday, 9A to 5P. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rich Dorvil can be reached on (571)272-7602. 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.

/ERNEST ESTES/

Examiner, Art Unit 2658

/Douglas C Godbold/

Primary Examiner, Art Unit 2658

Notice of References Cited	Application/Control No. 13/298,629	Applicant(s)/Patent Under Reexamination LIM, JONATHAN	
	Examiner ERNEST ESTES	Art Unit 2658	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,247,580 A	09-1993	Kimura et al.	704/275
*	B	US-6,650,248 B1	11-2003	O'Donnell et al.	340/12.28
*	C	US-2007/0005370 A1	01-2007	Elshout, Scott	704/275
*	D	US-2010/0321201 A1	12-2010	Huang et al.	340/825.22
*	E	US-2009/0254778	10-2009	Huang et al.	714/38
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	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					
	O					
	P					
	Q					
	R					
	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.

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	13298629
	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Dorvil, Richemond
	Attorney Docket Number	81230.156US1

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4703359		1987-10-27	Rumbolt et al.	
	2	4959810		1990-09-25	Darbee et al.	
	3	5255313		1993-10-19	Darbee	
	4	5515052		1996-05-07	Darbee	
	5	5552917		1996-09-03	Darbee	
	6	5614906		1997-03-25	Hayes et al.	
	7	7093003		2006-08-15	Yuh et al.	
	8	7612685		2009-11-03	Harris	
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Receipt date: 02/20/2013	Application Number	13298629 13298629 - GAU: 2658
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Dorvil, Richemond
	Attorney Docket Number	81230.156US1

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20100321201	A1	2010-12-23	Huang et al.	
	2	20050114141	A1	2005-05-26	Grody	
	3	20070118381	A1	2007-05-24	Hsu et al.	
	4	20110289113	A1	2011-11-24	Arling et al.	
	5	20070005370	A1	2007-01-04	Elshout	
	6	20090292375	A1	2009-11-26	Thompson	
If you wish to add additional U.S. Published Application citation information please click the Add button.						

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐
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Receipt date: 02/20/2013	Application Number	13298629 13298629 - GAU: 2658
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Dorvil, Richemond
	Attorney Docket Number	81230.156US1

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	International Search Report and Written Opinion of the International Searching Authority, dated December 28, 2012, Inter. Appl No. PCT/US 12/61475, 12 pgs.	☐

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EXAMINER SIGNATURE

Examiner Signature	/Ernest Estes/	Date Considered	09/24/2013

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /EE/

Receipt date: 02/20/2013	Application Number	13298629 13298629 - GAU: 2658
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Dorvil, Richemond
	Attorney Docket Number	81230.156US1

CERTIFICATION STATEMENT

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

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

OR

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

☒ See attached certification statement.

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

☐ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Gary R. Jarosik/	Date (YYYY-MM-DD)	2013-02-20
Name/Print	Gary R. Jarosik	Registration Number	35,906

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

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

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

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

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

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

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

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

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

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /EE/

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	915	(remote near5 control$4) same (mic microphone) same (speech speaking voice) near5 command	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:53
L2	285	(remote near5 control$4) same (IR infrared) same (mic microphone) same (speech speaking voice) near5 command	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:55
L3	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:55
L4	197	(remote near5 control$4) same (IR infrared) same (mic microphone) same (speech speaking voice) near5 command AND L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:55
L5	5705	(704/231 704/270 704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11
L6	1520	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11
L7	2441	(348/734).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11
L8	55	(remote near5 control$4) same (mic	US-PGPUB;	OR	ON	2013/09/27

		microphone) same (speech speaking voice) near5 command AND (L5 L6 L7)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:11
L9	11	(remote near5 control$4) same (mic microphone) same (config configuration configuring program$4) same (speech speaking voice) near5 command AND (L5 L6 L7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:12
L10	46	(remote near5 control$4) same (mic microphone) same (config configuration configuring program$4) same (speech speaking voice) AND (L5 L6 L7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:12
L11	33	(remote near5 control$4) same (mic microphone) same (config configuration configuring program$4) same (speech speaking voice) AND (L5 L6 L7) AND L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:12
L12	176	(remote near5 control$4) same (config configuration configuring program$4) same (speech speaking voice) AND (L5 L6 L7) AND L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:14
L13	149	(remote near5 control$4) same (config configuration configuring program$4) same (model) AND (L5 L6 L7) AND L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:14
L14	266	(remote near5 control$4) same (config configuration configuring program$4) same (brand manufacturer) AND (L5 L6 L7) AND L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:15
L15	64	(remote near5 control$4) same (config configuration configuring program$4) same ((select$3 enter$3 typ$3) near3 (brand manufacturer)) AND (L5 L6 L7) AND L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:15
S1	6	(Jonathan near3 Lim).in. AND ((remote) near5 (control$4 universal)) AND (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2013/09/24 15:30

			IBM_TDB			
S2	17	(Jonathan near3 Lim).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 15:30
S3	14	(("4703359") or ("4959810") or ("5255313") or ("5515052") or ("5552917") or ("5614906") or ("7093003") or ("7612685") or ("20100321201") or ("20050114141") or ("20070118381") or ("20110289113") or ("20070005370") or ("20090292375")).PN.	US-PGPUB; USPAT	OR	OFF	2013/09/24 15:42
S4	5	(("20100321201") or ("20050114141") or ("20070118381") or ("20110289113") or ("20070005370")).PN.	US-PGPUB; USPAT	OR	OFF	2013/09/24 15:45
S5	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:08
S6	0	("2010/0321201").URPN.	USPAT	OR	ON	2013/09/24 16:12
S7	735	(universal near2 electronics).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:21
S8	95	(universal near2 electronics).as. AND (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:21
S9	78	(universal near2 electronics).as. AND ((voice speech speak$3) same (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:21
S10	12	(universal near2 electronics).as. AND ((voice speech speak$3) near15 (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:21

S11	9	(universal near2 electronics).as. AND ((voice speech speak$3) near15 (program$4 provision$3 setup)) AND S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:22
S12	26	(universal near2 electronics).as. AND ((voice speech speaking spoken) same (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:25
S13	6	(universal near2 electronics).as. AND ((voice speech speaking spoken) near15 (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:26
S14	378	(universal AND remote).ti. AND (infrared)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:28
S15	5705	(704/231 704/270 704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:31
S16	1517	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:26
S17	2439	(348/734).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:27
S18	3	(configur$4 setup program$4 provision$3) same (remote) same (brand) same (model) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:28
S19	2845	(configur$4 setup program$4 provision$3) same (remote) same (mic microphone) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2013/09/24 17:30

			DERWENT; IBM_TDB			
S20	1032	(configur$4 setup program$4 provision$3) same (remote near5 control$4) same (mic microphone) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:30
S21	1566	(configur$4 setup program$4 provision$3) same (remote near5 control$4) same ((tablet) (smart near2 (phone device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:31
S22	1	(configur$4 program$4 provision$3) near5 (remote) same (brand) same (model) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 18:20
S23	1	("20090254778").PN.	US-PGPUB; USPAT	OR	OFF	2013/09/25 12:47
S24	10	(programming near8 remote same model same brand same type)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:22
S25	12	(programming near8 remote same (model brand manufacture) same (voice speech speak speaking))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:30
S26	114	(programming near8 remote) same ((typ$3 speak speaking enter$3) near5 (model brand manufacture))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:32
S27	1	(programming near8 remote) same ((speak speaking) near5 (model brand manufacture))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:34
S28	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:35

S29	97	(programming near8 remote) same ((typ$3 speak speaking enter$3) near5 (model brand manufacture)) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:35
S30	61	(programming near8 remote) same ((typ$3 speak speaking enter$3) near5 (model brand manufacture)) AND (PDA phone) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:38
S31	61	(programming near8 remote) same ((typ$3 enter$3) near5 (model brand manufacture)) AND (PDA phone) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:50
S32	58	(programming near8 remote) same ((typ$3) near5 (model brand manufacture)) AND (PDA phone) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:50
S33	216	(palm near3 pilot) same (remote) same (configur$5 program$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 23:21
S34	139	(PDA phone).ab. AND (universal near3 remote).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 23:22
S35	5	(PDA phone).ab. AND (universal near3 remote).ab. AND (brand model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 23:22
S36	81	(palm).as. AND (remote near3 control$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:36
S37	9	(palm).as. AND (remote near3 control$4) AND (model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2013/09/26 05:37

			DERWENT; IBM_TDB			
S38	0	(palm).as. AND ((remote near8 control$4) same (program$4)) AND (model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:38
S39	7	(palm).as. AND ((remote near8 control$4) same (program$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:38
S40	110	(remote near3 control$4) near8 (program$4) same ((enter$3 select$3 typ$3) near3 (model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:39
S41	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:40
S42	91	(remote near3 control$4) near8 (program$4) same ((enter$3 select$3 typ$3) near3 (model)) AND (S41)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:40
S43	11	(remote near3 control$4) near8 (program$4) same ((enter$3 select$3 typ$3) near3 (model adj (name number))) AND (S41)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:46
S44	7	(remote near3 control$4) near8 (program$4) same ((enter$3 typ$3) near3 (model adj (name number))) AND (S41)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:58

EAST Search History (Interference)

<This search history is empty>

9/27/2013 8:16:20 PM
C:\Users\eestes\Documents\EAST\Workspaces\13298629.wsp

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BIB DATA SHEET

CONFIRMATION NO. 2127

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
13/298,629	11/17/2011	704	2658	81230.156US1

APPLICANTS
Jonathan Lim, Cypress, CA;

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

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

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****
11/29/2011

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /ERNEST LANGSTON ESTES/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		CA	8	25	2

ADDRESS

GREENBERG TRAURIG, LLP (CHI)
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SUITE 3100
CHICAGO, IL 60601-1732
UNITED STATES

TITLE

SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE

FILING FEE RECEIVED		
1550	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

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	**Art Unit**
	ERNEST ESTES	2658

✓	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	09/24/2013								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
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	22	✓								
	23	✓								
	24	✓								
	25	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	Art Unit
	ERNEST ESTES	2658

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
704	231, 270, 275	9/24/2013	EE
340	12.22, 12.23, 12.28	9/27/2013	EE
348	734	9/27/2013	EE

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search	9/24/2013	EE
GoogleScholar NPL search	9/24/2013	EE
Keyword text search and keyword w/ date and/or class/subclass	9/24/2013	EE
Consulted primary D. Godbold	9/27/2013	EE

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

/ERNEST ESTES/ Examiner.Art Unit 2658	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lim	) Examiner:	Estes, Ernest Langston
		)	
Application No.:	13/298,629	) Attny Doc.:	81230.156US1
		)	
Filing Date:	November 17, 2011	) Art Unit:	2658
		)	
Title:	System And Method For Voice Activated Configuration of a Controlling Device	)	

RESPONSE

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

Dear Sir:

In response to the Office Action dated October 3, 2013 please enter the Amendment To The Claims which begins on page 2 of this paper, and please consider the Remarks which begin on page 8 of this paper.

The Commissioner is authorized to charge any fee deficiency to deposit account number 50-2428 in the name of Greenberg Traurig, LLP.

Certificate of Electronic Transmission: I hereby certify that this document and its attachments are being electronically transmitted to the U.S. Patent and Trademark Office via EFS-Web on this 19th day of December, 2013.

/Gladys Negron-Munoz/
Gladys Negron-Munoz

CHI 64243741v1

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross-referenced to the brand of the target appliance; ~~and~~

causing the at least one codeset to be provisioned to the controlling device for use in commanding functional operations of the target appliance;

mapping a select one or more command codes from within the codeset to each of a plurality user input elements of the controlling device whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication corresponding to the select one or more command codes from with the codeset mapped thereto; and

causing the controlling device to transmit a command communication corresponding to a generically labeled command code from within the codeset in response to the speech recognition engine receiving voice data indicative of the generically labeled command code from within the codeset when the generically labeled command code from within the codeset is not caused to be mapped to any of the plurality of user input elements of the controlling device.

2. (Original) The method as recited in claim 1, wherein the speech recognition engine

identifies a plurality of codesets that are cross-referenced to the brand of the appliance and the method further comprises receiving at the speech recognition engine voice data indicative of at least a model of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to the model of the target appliance and wherein the at least one codeset that is provisioned to controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance.

3. (Original) The method as recited in claim 2, wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data.

4. (Original) The method as recited in claim 3, wherein the controlling device comprises a memory having stored therein the library of codesets.

5. (Original) The method as recited in claim 4, wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine.

6. (Original) The method as recited in claim 3, wherein the speech recognition engine is executed on a computing device remote from the controlling device.

7. (Original) The method as recited in claim 6, wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto.

8. (Original) The method as recited in claim 1, wherein the library of codesets is stored

remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto.

9. (Currently Amended) The method as recited in claim 1, wherein ~~the controlling device has a plurality of function keys activatable to cause a transmission of a command to the target appliance and wherein~~ the method comprises receiving at the speech recognition engine voice data for mapping the select one or more command codes from within the codeset to each of the plurality of user input elements of the controlling device ~~indicative of a command to be assigned to a function key of the controlling device whereupon the speech recognition engine uses the voice data indicative of a command to be assigned to a function key to identify within the at least one codeset command data that is cross-referenced to the command and causing the command data of the at least one codeset to be used by the controlling device in response to the function key being subsequently activated to cause a transmission of a command to the target device~~.

10. (Cancelled)

11. (Original) The method as recited in claim 1, wherein location data is additionally utilized in the process of identifying the at least one codeset that is cross-referenced to the brand of the target appliance.

12. (Original) The method as recited in claim 2, wherein location data is additionally utilized in the process of identifying the at least one codeset that is cross-reference to the model of the target appliance.

13. (Currently Amended) A system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a speech recognition engine to use received voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross-referenced to the brand of the target appliance, ~~and to~~ cause the at least one codeset to be provisioned to the controlling device for use in commanding functional operations of the target appliance; cause a select one or more command codes from within the codeset to be mapped to each of a plurality of user input elements of the controlling device wherein a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication corresponding to the select one or more command codes from with the codeset mapped thereto, and cause the controlling device to transmit a command communication corresponding to a generically labeled command code from within the codeset in response to the speech recognition engine receiving voice data indicative of the generically labeled command code from within the codeset when the generically labeled command code from within the codeset is not caused to be mapped to any of the plurality of user input elements of the controlling device.

14. (Original) The system as recited in claim 13, wherein the instructions are downloaded to the controlling device in a downloadable app.

15. (Original) The system as recited in claim 14, wherein the controlling device comprises one of a smart phone or a tablet computing device.

16. (Original) The system as recited in claim 13, wherein the speech recognition engine functions to identify a plurality of codesets that are cross-referenced to the brand of the appliance and the instructions further cause the speech recognition engine to use received voice data indicative of a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to a model of the target appliance whereupon the at least one codeset that is provisioned to controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance.

17. (Original) The system as recited in claim 16, wherein the controlling device comprises a memory having stored therein the library of codesets.

18. (Original) The system as recited in claim 16, wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto.

19. (Original) The system as recited in claim 13, wherein the processing device comprises one or more computing devices located remotely from the controlling device.

20. (Original) The system as recited in claim 19, wherein the controlling device comprises a memory having stored therein the library of codesets.

21. (Original) The system as recited in claim 19, wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto.

22. (Currently Amended) The system as recited in claim 13, ~~wherein the controlling device has a plurality of function keys activatable to cause a transmission of a command to the target appliance and~~ wherein the instructions use voice data received by ~~cause~~ the speech recognition engine to map the select one or more command codes from within the codeset to each of the plurality of user input elements of the controlling device ~~use voice data indicative of a command to be assigned to a function key of the controlling device to identify within the at least one codeset command data that is cross-referenced to the command and to cause the command data of the at least one codeset to be used by the controlling device in response to the function key being subsequently activated to cause a transmission of a command to the target device~~.

23. (Cancelled)

24. (Original) The system as recited in claim 13, wherein the instructions additionally cause location data to be considered when identifying the at least one codeset that is cross-referenced to the brand of the target appliance.

25. (Original) The system as recited in claim 16, wherein the instructions additionally cause location data to be considered when identifying the at least one codeset that is cross-reference to the model of the target

REMARKS

In the application claims 1-9, 11-22, 24 and 25 remain pending. Claims 10 and 23 have been cancelled without prejudice. The claims as amended find support in the application as originally filed (for example, being disclosed in paragraphs 0031-0034 of the subject application). As such, no new matter has been added.

The pending claims currently stand rejected under 35 U.S.C. § 102 as being anticipated by Huang (U.S. Application No. 2009/0254778).

The reconsideration of this rejection is respectfully requested.

It is respectfully submitted that Huang does not disclose, teach, or suggest mapping a select one or more command codes from within the codeset to each of a plurality user input elements of the controlling device (for example only those command codes that correspond to the most commonly controlled functions of an appliance) while also causing the controlling device to transmit a command communication corresponding to a generically labeled command code from within the codeset in response to the speech recognition engine receiving voice data indicative of the generically labeled command code from within the codeset when the generically labeled command code from within the codeset is not caused to be mapped to any of the plurality of user input elements of the controlling device (for example those command codes that correspond to an extended controllable function of an appliance that may be further identified through a spoken synonym as provided to the speech recognition engine). Because Huang fails to disclosed at least these elements (which claimed elements are also missing from the remaining art of record), it is respectfully submitted that Huang cannot be said to anticipate or render obvious the invention now claimed. For at least this reason it is respectfully requested that the outstanding rejections under 35 U.S.C. §§ 102 and 103 be withdrawn.

CONCLUSION

It is respectfully submitted that the application is now in good and proper form for allowance. Such action on the part of the Examiner is respectfully requested.

Respectfully Submitted;

Date: December 19, 2013

By: _____/Gary Jarosik/_____
Gary R. Jarosik, Reg. No. 35,906
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Chicago, Illinois 60601
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Electronic Acknowledgement Receipt

EFS ID:	17713445
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	19-DEC-2013
Filing Date:	17-NOV-2011
Time Stamp:	16:06:34
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	TransmittalForm_13298629.pdf	147494 48b805b4d71aab05437ed7857f4d09fc503bdbe3	no	1

Warnings:	
Information:	

2		RespOA_13298629.pdf	117788 26ab3641638b953a0269199fa5e305007392a19a	yes	9

	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	9

Warnings:	
Information:	
Total Files Size (in bytes):	265282

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

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

Doc Code: TRAN.LET
Document Description: Transmittal Letter

PTO/SB/21 (07-09)
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	13/298,629
		Filing Date	11/17/2011
		First Named Inventor	Jonathan Lim
		Art Unit	2658
		Examiner Name	Estes, Ernest Langston
Total Number of Pages in This Submission	10	Attorney Docket Number	81230.156US1

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☑ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☐ Other Enclosure(s) (please Identify below):

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Greenberg Traurig, LLP - Customer No. 34018		
Signature	/Gary R. Jarosik/		
Printed name	Gary R. Jarosik		
Date	December 19, 2013	Reg. No.	35,906

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	/Gladys Negron-Munoz/		
Typed or printed name	Gladys Negron-Munoz	Date	December 19, 2013

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 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, 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/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/298,629	Filing Date 11/17/2011	☐ 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

12/19/2013	(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))	* 23	Minus	** 25	= 0	X $80 =	0
Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $420 =	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
/DAWN BREWER/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 04/09/2014

GREENBERG TRAURIG, LLP (CHI)
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EXAMINER	
ESTES, ERNEST LANGSTON	
ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
04/09/2014	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):

chiipmail@gtlaw.com
escobedot@gtlaw.com
jarosikg@gtlaw.com

Office Action Summary	Application No. 13/298,629	Applicant(s) LIM, JONATHAN	
	Examiner ERNEST ESTES	Art Unit 2658	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 *12/19/2013*.

☐ 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) *1-9,11-22,24 and 25* 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) *1-9, 11-22 and 24-25* 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 *11/17/2011* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

DETAILED ACTION

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

Response to Arguments

2. Applicant's arguments, see Remarks pages 8-9, filed 12/19/2013, with respect to the rejection(s) of claim(s) 1-9, 11-22 and 24-25 under 35 USC § 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Cane (Pub. No.: US2006/0235701A1).

Response to Amendment

3. Claims 1-9, 11-22 and 24-25 are pending. Claims 10 and 23 are cancelled and claims 1, 9, 13 and 22 have been amended. All pending claims are addressed below.

Claim Rejections - 35 USC § 103

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

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

5. Claims 1, 8-9, 11, 13-15, 22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (Pub. No.: US2009/0254778 A1) in further view of Cane (Pub. No.: US2006/0235701A1).

Regarding claim 1, Huang teaches a method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross-referenced to the brand of the target appliance (paragraph [0068] discloses using speech recognition as user input and paragraph [0155] discloses taking/receiving user input indicative of a manufacture/brand to identify a codeset cross-referenced to the brand of the target device);

causing the at least one codeset to be provisioned to the controlling device for use in commanding functional operations of the target appliance (paragraph [0152] discloses that the appropriate codeset is selected to be used to control the selected/target device, i.e. the appropriate codeset is provisioned to enable control of the target/selected device via commands); and

mapping a select one or more command codes from within the codeset to each of a plurality user input elements of the controlling device whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication corresponding to the select one or more command codes from with the codeset mapped thereto (paragraph [0180] discloses

mapping functions to icons buttons and paragraph [0184] discloses mapping functions to user input elements/hard buttons and further, figure 18 disclose the mapping of a button to command codes from within the codeset).

Huang fails to teach causing the controlling device to transmit a command communication corresponding to a generically labeled command code from within the codeset in response to the speech recognition engine receiving voice data indicative of the generically labeled command code from within the codeset when the generically labeled command code from within the codeset is not caused to be mapped to any of the plurality of user input elements of the controlling device.

However in the same field of remote control devices Cane teaches causing the controlling device to transmit a command communication corresponding to a generically labeled command code from within the codeset in response to the speech recognition engine receiving voice data indicative of the generically labeled command code from within the codeset when the generically labeled command code from within the codeset is not caused to be mapped to any of the plurality of user input elements of the controlling device (Cane, paragraph [0030] discloses using selective speech commands to enable a reduced button count interface while providing high level functionality).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the remote control method of Huang by utilizing the limited button layout of Cane with selective speech commands for high level functions without dedicated buttons to promote ease of use, particularly for complicated functionalities in

dark rooms (Cane, paragraphs [0088] and [0030] summarized the advantages of the simplified button layout enabled by the speech command functionality of Cane).

Regarding claim 8, the combination of Huang and Cane teaches the method of configuration of claim 1 and further teaches wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto (at least Huang, paragraphs [0037], [0039], [0114], [0128], [0152] and [0227] disclose the download of remotely stored codesets to the controlling device).

Regarding claim 9, the combination of Huang and Cane teaches the method of configuration of claim 1 and further teaches wherein the method comprises receiving at the speech recognition engine voice data for mapping the select one or more command codes from within the codeset to each of the plurality of user input elements of the controlling device. (Huang, paragraph [0128] discloses the reassignment of functions/commands to activatable function keys/user input elements based on user's input/selection which paragraph [0068] already teaches can be in the form of speech recognized voice data).

Regarding claim 11, the combination of Huang and Cane teaches the method of configuration of claim 1 and further teaches wherein location data is additionally utilized in the process of identifying the at least one codeset that is cross-referenced to the

brand of the target appliance (Huang, paragraph [0317] discloses the use of a region/location data to present the most likely codeset to the user during the codeset identification process to improve usability).

Regarding claim 13, Huang teaches a system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a speech recognition engine to use received voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross- referenced to the brand of the target appliance, cause the at least one codeset to be provisioned to the controlling device for use in commanding functional operations of the target appliance (in Huang, paragraph [0068] discloses using speech recognition as user input, paragraph [0155] discloses taking/receiving user input indicative of a manufacture/brand to identify a codeset cross-referenced to the brand of the target device, paragraph [0152] discloses the that the appropriate codeset is selected to be used to control the selected/target device, i.e. the appropriate codeset is provisioned to enable control of the target/selected device via command and paragraphs [0032-0033] disclose that these functions are implemented on software/computer executable on a processing device/PDA); and cause a select one or more command codes from within the codeset to be mapped to each of a plurality of user input elements of the controlling device wherein a subsequent activation of a one of the plurality of user input elements

will cause the controlling device to transmit a command communication corresponding to the select one or more command codes from with the codeset mapped thereto.

Huang fails to teach causing the controlling device to transmit a command communication corresponding to a generically labeled command code from within the codeset in response to the speech recognition engine receiving voice data indicative of the generically labeled command code from within the codeset when the generically labeled command code from within the codeset is not caused to be mapped to any of the plurality of user input elements of the controlling device.

However in the same field of remote control devices Cane teaches causing the controlling device to transmit a command communication corresponding to a generically labeled command code from within the codeset in response to the speech recognition engine receiving voice data indicative of the generically labeled command code from within the codeset when the generically labeled command code from within the codeset is not caused to be mapped to any of the plurality of user input elements of the controlling device (Cane, paragraph [0030] discloses using selective speech commands to enable a reduced button count interface while providing high level functionality).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the remote control of Huang by utilizing the limited button layout of Cane with selective speech commands for high level functions without a dedicated buttons to promote ease of use, particularly for complicated functionalities in dark rooms (Cane, paragraphs [0088] and [0030] summarized the advantages of the simplified button layout enabled by the speech command functionality of Cane).

Regarding claim 14, the combination of Huang and Cane teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions are downloaded to the controlling device in a downloadable app (Huang, figure 3 discloses that the PDA software/applications which comprise instruction to implement the remote configuration process are stored/downloaded to the hand-held device).

Regarding claim 15, the combination of Huang and Cane teaches the system for configuring a controlling device of claim 14 and further teaches wherein the controlling device comprises one of a smart phone or a tablet computing device (Huang, paragraphs [0005] and [0030] disclose that the method of the invention is drawn towards implementing remote configuration on various types of hand-held controlling devices including an extended-functionality/smart phone and a tablet computing device).

Regarding claim 22, the combination of Huang and Cane teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions use voice data received by the speech recognition engine to map the select one or more command codes from within the codeset to each of a plurality of user input elements of the controlling device (Huang, paragraph [0128] discloses the reassignment of functions/commands to activatable function keys/user input elements based on user's

input/selection which paragraph [0028] already teaches can be in the form of speech recognized voice data).

Regarding claim 24, the combination of Huang and Cane teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions additionally cause location data to be considered when identifying the at least one codeset that is cross- referenced to the brand of the target appliance (Huang, paragraph [0317] discloses the use of a region/location data to present the most likely codeset to the user during the codeset identification process to improve usability)

6. Claims 2-7, 12, 16-21 and 25 rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Huang (Pub. No.: US2009/0254778 A1) and Cane (Pub. No.: US2006/0235701A1) and in further view of Harris (7,944,370 B1).

Regarding claim 2, the combination of Huang and Cane teaches the method of configuration of claim 1 wherein the speech recognition engine identifies a plurality of codesets that are cross-referenced to the brand of the appliance (Huang, paragraph [0027]) but fails to explicitly teach receiving at the speech recognition engine voice data indicative of at least a model of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to the model of the target appliance and wherein the at least one codeset that is

provisioned to controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance.

However in the same field of remote control devices Harris teaches receiving data indicative of at least a model of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to the model of the target appliance and wherein the at least one codeset that is provisioned to controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance (Harris figure 12 discloses the user input, which Huang teaches can be in the form of speech recognition data, of a model of a target device which is used by the receiving system to determine configuration data/codesets that are cross-referenced with the particular model).

It would have been obvious to one of ordinary skill in the art at the time of the invention to include receiving user input/data, which the combination of Huang and Cane already teaches can be speech, indicating the model number of the target appliance in order to improve the user experience by narrowing down the candidate codesets in order to minimize errors and user inconvenience when selecting the appropriate codeset (Harris, col 2 lines 31-35).

Regarding claim 3, the combination of Huang and Cane and Harris teaches the method of configuration of claim 2 and further teaches wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data

(Huang, paragraphs [0005] and [0030] disclose that the method of the invention is drawn towards implementing remote configuration on various types of hand-held devices including an extended-functionality phone which obviously possess a microphone for receiving voice input and data).

Regarding claim 4, the combination of Huang and Cane and Harris teaches the method of configuration of claim 3 and further teaches wherein the controlling device comprises a memory having stored therein the library of codesets (Huang, figure 5 discloses a User IR Code DB 544 which is a codeset stored on the controlling device).

Regarding claim 5, the combination of Huang and Cane and Harris teaches the method of configuration of claim 4 and further teaches wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine (Huang, figure 5 discloses a User Input 510 which paragraph [0068] explain can include speech recognition from software resident on the controlling device/PDA).

Regarding claim 6, the combination of Huang and Cane and Harris teaches the method of configuration of claim 3 and while a speech recognition engine executing on a computing device remote from the controlling device is not explicitly taught, server-based/off-board/remote speech recognition is well known within the art speech processing, especially for portable devices with restricted processing capabilities. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention

to substitute the onboard speech recognition of Huang with the well-known practice of using an off-board/remotely located or server-based speech recognition since the motivation of such a combination would be well known. Specifically, the motivation for using a computing device remote from the controlling device to execute speech recognition is to take advantage of more powerful processing available on larger computers/servers in order to enable more accurate speech recognition without consuming excessing power, computing resources and/or physical space on a hand-held/portable device that would otherwise be required for comparable performance.

Regarding claim 7, the combination of Huang and Cane and Harris teaches the method of configuration of claim 6 and further teaches wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto (Huang, figure 3 discloses the remote storage of an IR Database/codeset).

Regarding claim 12, the combination of Huang and Cane and Harris teaches the method of configuration of claim 2 and further teaches wherein location data is additionally utilized in the process of identifying the at least one codeset that is cross-reference to the model of the target appliance (Huang paragraph [0317] teaches the use of region/location data in the process of identifying codesets for a target appliance and Harris figure 12 discloses the user input of a manufacture/brand and model of a target device which is used by the receiving system to determine/retrieve configuration

data/codesets that are cross-referenced with a particular combination of brand and model).

Regarding claim 16, the combination of Huang and Cane and Harris teaches the system for configuring a controlling device of claim 13 and further teaches wherein the speech recognition engine functions to identify a plurality of codesets that are cross-referenced to the brand of the appliance and the instructions further cause the speech recognition engine to use received voice data indicative of a model of the target appliance to identify within the plurality of codesets at least one codeset that is cross-referenced to a model of the target appliance whereupon the at least one codeset that is provisioned to controlling device is the at least one codeset that is also cross-referenced to the model of the target appliance (Harris figure 12 discloses the user input, which Huang teaches can be in the form of speech recognition data, of a brand/manufacturer and model of a target device which is used by the receiving system to determine configuration data/codesets that are cross-referenced with a particular combination of brand/manufacture and model that are subsequently be used for provisioning/programming).

Regarding claim 17, the combination of Huang and Cane and Harris teaches the system for configuring a controlling device of claim 16 and further teaches wherein the controlling device comprises a memory having stored therein the library of codesets

(Huang, figure 5 discloses a User IR Code DB 544 which is a codeset stored in memory on the controlling device).

Regarding claim 18, the combination of Huang and Cane and Harris teaches the system for configuring a controlling device of claim 17 and further teaches wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto (Huang, figure 3 discloses the remote storage of an IR Database/codeset for downloading to the controlling device).

Regarding claim 19, the combination of Huang and Cane and Harris teaches the system for configuring a controlling device of claim 13 and while limitation that the processing device comprises one or more computing devices located remotely from the controlling device is not explicitly taught, server-based/off-board/remote speech recognition engines or processing devices are well known within the art speech processing, especially for portable devices with restricted processing capabilities. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the onboard speech recognition engine of Huang with the well-known practice of using off-board/remotely located speech recognition engines or processing devices since the motivation of such a combination would be well known. Specifically, the motivation for using a computing device remote from the controlling device to execute speech recognition is to take advantage of more powerful processing available

on larger computers/servers in order to enable more accurate speech recognition without consuming excessing power, computing resources and/or physical space on a hand-held/portable device that would otherwise be required for comparable performance.

Regarding claim 20, the combination of Huang and Cane and Harris teaches the system for configuring a controlling device of claim 19 and further teaches wherein the controlling device comprises a memory having stored therein the library of codesets (Huang, figure 5 discloses a User IR Code DB 544 which is a codeset stored in memory on the controlling device).

Regarding claim 21, the combination of Huang and Cane and Harris teaches the system for configuring a controlling device of claim 19 and further teaches wherein the library of codesets is stored remotely from the controlling device and the at least one codeset is provisioned to the controlling device by being downloaded thereto (Huang, figure 3 discloses the remote storage of an IR Database/codeset for downloading to the controlling device).

Regarding claim 25, the combination of Huang and Cane and Harris teaches the system for configuring a controlling device of claim 16 and further teaches wherein the instructions additionally cause location data to be considered when identifying the at least one codeset that is cross- reference to the model of the target appliance (Harris

figure 12 discloses the user input of a manufacturer/brand and model of a target device which is used by the receiving system to determine configuration data/codesets that are cross-referenced with the particular model and Huang teaches using region/location data to narrow down cross-referenced codesets).

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and is listed on the Notice of References Cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERNEST ESTES whose telephone number is (571)270-3856. The examiner can normally be reached on Monday-Friday, 9A to 5P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rich Dorvil can be reached on (571)272-7602. 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.

/ERNEST ESTES/

Examiner, Art Unit 2658

/DOUGLAS GODBOLD/

Primary Examiner, Art Unit 2658

Notice of References Cited	Application/Control No. 13/298,629	Applicant(s)/Patent Under Reexamination LIM, JONATHAN	
	Examiner ERNEST ESTES	Art Unit 2658	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,629,077 B1	09-2003	Arling et al.	704/275
*	B	US-6,879,351 B1	04-2005	Brown, William J.	348/734
*	C	US-2006/0235698 A1	10-2006	Cane et al.	704/275
*	D	US-2006/0235701 A1	10-2006	Cane et al.	704/275
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	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					
	O					
	P					
	Q					
	R					
	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.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	6	(Jonathan near3 Lim).in. AND ((remote) near5 (control$4 universal)) AND (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 15:30
S2	17	(Jonathan near3 Lim).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 15:30
S3	14	(("4703359") or ("4959810") or ("5255313") or ("5515052") or ("5552917") or ("5614906") or ("7093003") or ("7612685") or ("20100321201") or ("20050114141") or ("20070118381") or ("20110289113") or ("20070005370") or ("20090292375")).PN.	US-PGPUB; USPAT	OR	OFF	2013/09/24 15:42
S4	5	(("20100321201") or ("20050114141") or ("20070118381") or ("20110289113") or ("20070005370")).PN.	US-PGPUB; USPAT	OR	OFF	2013/09/24 15:45
S5	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:08
S6	0	("2010/0321201").URPN.	USPAT	OR	ON	2013/09/24 16:12
S7	735	(universal near2 electronics).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:21
S8	95	(universal near2 electronics).as. AND (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2013/09/24 16:21

			DERWENT; IBM_TDB			
S9	78	(universal near2 electronics).as. AND ((voice speech speak$3) same (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:21
S10	12	(universal near2 electronics).as. AND ((voice speech speak$3) near15 (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:21
S11	9	(universal near2 electronics).as. AND ((voice speech speak$3) near15 (program$4 provision$3 setup)) AND S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:22
S12	26	(universal near2 electronics).as. AND ((voice speech speaking spoken) same (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:25
S13	6	(universal near2 electronics).as. AND ((voice speech speaking spoken) near15 (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:26
S14	378	(universal AND remote).ti. AND (infrared)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:28
S15	5705	(704/231 704/270 704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:31
S16	1517	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:26
S17	2439	(348/734).ccls.	US-PGPUB; USPAT; USOCR;	OR	ON	2013/09/24 17:27

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S18	3	(configur$4 setup program$4 provision$3) same (remote) same (brand) same (model) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:28
S19	2845	(configur$4 setup program$4 provision$3) same (remote) same (mic microphone) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:30
S20	1032	(configur$4 setup program$4 provision$3) same (remote near5 control$4) same (mic microphone) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:30
S21	1566	(configur$4 setup program$4 provision$3) same (remote near5 control$4) same ((tablet) (smart near2 (phone device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:31
S22	1	(configur$4 program$4 provision$3) near5 (remote) same (brand) same (model) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 18:20
S23	1	("20090254778").PN.	US-PGPUB; USPAT	OR	OFF	2013/09/25 12:47
S24	10	(programming near8 remote same model same brand same type)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:22
S25	12	(programming near8 remote same (model brand manufacture) same (voice speech speak speaking))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:30
S26	114	(programming near8 remote) same ((typ$3 speak speaking enter$3) near5 (model brand manufacture))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2013/09/25 22:32

			IBM_TDB			
S27	1	(programming near8 remote) same ((speak speaking) near5 (model brand manufacture))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:34
S28	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:35
S29	97	(programming near8 remote) same ((typ$3 speak speaking enter$3) near5 (model brand manufacture)) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:35
S30	61	(programming near8 remote) same ((typ$3 speak speaking enter$3) near5 (model brand manufacture)) AND (PDA phone) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:38
S31	61	(programming near8 remote) same ((typ$3 enter$3) near5 (model brand manufacture)) AND (PDA phone) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:50
S32	58	(programming near8 remote) same ((typ$3) near5 (model brand manufacture)) AND (PDA phone) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:50
S33	216	(palm near3 pilot) same (remote) same (configur$5 program$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 23:21
S34	139	(PDA phone).ab. AND (universal near3 remote).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 23:22
S35	5	(PDA phone).ab. AND (universal near3 remote).ab. AND (brand model)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	2013/09/25 23:22

			JPO; DERWENT; IBM_TDB			
S36	81	(palm).as. AND (remote near3 control$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:36
S37	9	(palm).as. AND (remote near3 control$4) AND (model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:37
S38	0	(palm).as. AND ((remote near8 control$4) same (program$4)) AND (model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:38
S39	7	(palm).as. AND ((remote near8 control$4) same (program$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:38
S40	110	(remote near3 control$4) near8 (program$4) same ((enter$3 select$3 typ$3) near3 (model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:39
S41	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:40
S42	91	(remote near3 control$4) near8 (program$4) same ((enter$3 select$3 typ$3) near3 (model)) AND (S41)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:40
S43	11	(remote near3 control$4) near8 (program$4) same ((enter$3 select$3 typ$3) near3 (model adj (name number))) AND (S41)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:46
S44	7	(remote near3 control$4) near8 (program$4) same ((enter$3 typ$3)	US-PGPUB; USPAT;	OR	ON	2013/09/26 05:58

		near3 (model adj (name number))) AND (S41)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S45	915	(remote near5 control$4) same (mic microphone) same (speech speaking voice) near5 command	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:53
S46	285	(remote near5 control$4) same (IR infrared) same (mic microphone) same (speech speaking voice) near5 command	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:55
S47	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:55
S48	197	(remote near5 control$4) same (IR infrared) same (mic microphone) same (speech speaking voice) near5 command AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:55
S49	5705	(704/231 704/270 704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11
S50	1520	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11
S51	2441	(348/734).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11
S52	55	(remote near5 control$4) same (mic microphone) same (speech speaking voice) near5 command AND (S49 S50 S51)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11

S53	11	(remote near5 control$4) same (mic microphone) same (config configuration configuring program$4) same (speech speaking voice) near5 command AND (S49 S50 S51)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:12
S54	46	(remote near5 control$4) same (mic microphone) same (config configuration configuring program$4) same (speech speaking voice) AND (S49 S50 S51)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:12
S55	33	(remote near5 control$4) same (mic microphone) same (config configuration configuring program$4) same (speech speaking voice) AND (S49 S50 S51) AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:12
S56	176	(remote near5 control$4) same (config configuration configuring program$4) same (speech speaking voice) AND (S49 S50 S51) AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:14
S57	149	(remote near5 control$4) same (config configuration configuring program$4) same (model) AND (S49 S50 S51) AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:14
S58	266	(remote near5 control$4) same (config configuration configuring program$4) same (brand manufacturer) AND (S49 S50 S51) AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:15
S59	64	(remote near5 control$4) same (config configuration configuring program$4) same ((select$3 enter$3 typ$3) near3 (brand manufacturer)) AND (S49 S50 S51) AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:15
S60	1	("20130132094").PN.	US-PGPUB; USPAT	OR	OFF	2014/03/26 10:11
S61	2606	(remote near5 control$4) AND (IR infrared) AND (mic microphone) same (speech speaking voice) near5 command	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:19
S62	19225	(remote near5 (control$4 universal)) AND ((recall return last previous back) near8 channel)	US-PGPUB; USPAT; USOCR;	OR	ON	2014/03/26 10:24

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S63	802	(remote near5 (control$4 universal)) AND ((recall return last previous back) near8 channel) same (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:24
S64	639	(remote near5 (control$4 universal)) AND ((recall return last previous back) near5 channel) same (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:24
S65	312	(remote near5 (control$4 universal)) AND ((recall return last previous back) near5 channel) with (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:24
S66	0	(remote near5 (control$4 universal)) AND ((recall return last previous back) near5 channel) with (voice speech) same (button key) near6 (missing without)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:29
S67	41	(remote near5 (control$4 universal)) AND ((recall return last previous back) near5 channel) with (voice speech) same (button key)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:29
S68	28207	(remote near5 (control$4 universal)) same (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 20:56
S69	5203	(remote near5 (control$4 universal)) same (voice speech) same button	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 20:56
S70	8	(remote near5 (control$4 universal)) same (voice speech) same button same mic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 20:57
S72	1088	(remote near5 (control$4 universal))	US-PGPUB;	OR	ON	2014/03/30

		same (voice speech) same button same (mic microphone) AND (@PD <"20111117")	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:59
S73	91	(remote near5 (control$4 universal)).ab. same (voice speech) same button same (mic microphone) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 21:05
S74	383	(remote near5 (control$4 universal)).ab. AND (voice speech) same button same (mic microphone) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 21:05
S75	101	(remote near5 (control$4 universal)).ab. AND (voice speech) same command same button same (mic microphone) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 21:06
S76	4	(remote near5 (control$4 universal)).ab. AND (voice speech) same command same button with many same (mic microphone) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 21:40
S77	2	("2006/0235701").URPN.	USPAT	OR	ON	2014/03/30 21:49
S78	2	(("6553345") or ("6747566")).PN.	US-PGPUB; USPAT	OR	OFF	2014/03/30 21:51
S79	141	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 21:52
S80	24	(remote near5 (control$4 universal)).ab. AND (voice speech) same (reduc$4 smaller lower) same button near8 (count number) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 22:01
S81	16	(remote near5 (control$4 universal)).ab. AND (voice speech) same (reduc$4 smaller lower) with button near8 (count number) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 22:01
S82	8	S80 not S81	US-PGPUB;	OR	ON	2014/03/30

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			22:04
S83	2421	(704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 10:54
S84	7560	(704/270 704/275).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 10:54
S85	1700	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 10:54
S86	2754	(348/734).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 10:55
S87	8126	(G10L21/00 G10L15/265).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 10:55
S88	2421	(704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:22
S89	7560	(704/270 704/275).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S90	1700	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/03/31 12:23

			IBM_TDB			
S91	2754	(348/734).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S92	8126	(G10L21/00 G10L15/265).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S93	0	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117") AND S88	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S94	8	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117") AND S89	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S95	2	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117") AND S90	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S96	7	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117") AND S91	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S97	5	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117") AND S92	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S98	7	(Jonathan near3 Lim).in. AND ((remote) near5 (control$4 universal)) AND (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:31

EAST Search History (Interference)

<This search history is empty>

3/31/2014 12:33:07 PM
C:\Users\eestes\Documents\EAST\Workspaces\13298629.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	Art Unit
	ERNEST ESTES	2658

CPC- SEARCHED		
Symbol	Date	Examiner
G10L21/00	3/31/2014	EE
G10L15/265	3/31/2014	EE

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
704	231, 270, 275	9/24/2013	EE
340	12.22, 12.23, 12.28	9/27/2013	EE
348	734	9/27/2013	EE
704	231, 270, 275	3/31/2014	EE
340	12.22, 12.23, 12.28	3/31/2014	EE
348	734	3/31/2014	EE

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search	9/24/2013	EE
GoogleScholar NPL search	9/24/2013	EE
Keyword text search and keyword w/ date and/or class/subclass	9/24/2013	EE
Consulted primary D. Godbold	9/27/2013	EE
Consulted SPE R. Dorvil on final	3/26/2014	EE
Updated EAST and GoogleScholar searches	3/30/2014	EE

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

/ERNEST ESTES/ Examiner.Art Unit 2658	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	**Art Unit**
	ERNEST ESTES	2658

✓	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	09/24/2013	03/31/2014							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	-							
	11	✓	✓							
	12	✓	✓							
	13	✓	✓							
	14	✓	✓							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19	✓	✓							
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	21	✓	✓							
	22	✓	✓							
	23	✓	-							
	24	✓	✓							
	25	✓	✓							

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

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	13298629	Filing Date	2011-11-17	Docket Number (if applicable)	81230.156US1	Art Unit	2658
First Named Inventor	Jonathan Lim			Examiner Name	Estes, Ernest Langston		

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

SUBMISSION REQUIRED UNDER 37 CFR 1.114

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

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

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

☒ Enclosed

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

MISCELLANEOUS

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

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 502428

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

Signature of Registered U.S. Patent Practitioner			
Signature	/Gary R. Jarosik/	Date (YYYY-MM-DD)	2014-06-04
Name	Gary R. Jarosik	Registration Number	35906

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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 Cooperation Treaty.

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

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

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

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lim	Examiner:	Estes, Ernest Langston
Application No.:	13/298,629	Attny Doc.:	81230.156US1
Filing Date:	November 17, 2011	Art Unit:	2658
Title:	System And Method For Voice Activated Configuration of a Controlling Device		

RESPONSE

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

Dear Sir:

In connection with the Request For Continued Examination filed herewith and in response to the Office Action dated April 9, 2014 please enter the Amendment To The Claims which begins on page 2 of this paper, and please consider the Remarks which begin on page 8 of this paper.

The Commissioner is authorized to charge any fee deficiency to deposit account number 50-2428 in the name of Greenberg Traurig, LLP.

Certificate of Electronic Transmission: I hereby certify that this document and its attachments are being electronically transmitted to the U.S. Patent and Trademark Office via EFS-Web on this 4th day of June, 2014.

/Gladys Negron-Munoz/
Gladys Negron-Munoz

CHI 64813364v1

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

~~receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross-referenced to the brand of the target appliance; and~~

causing a ~~the at least one~~ codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance, the provisioned codeset record comprising protocol and formatting information and a series of individual command function entries wherein each of the series of individual function entries comprises command data and wherein each of one or more of the series of individual command function entries comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced;

~~mapping a select one or more~~ causing less than all of the individual command function entries ~~codes~~ from within the provisioned codeset record to each be matched to one or more ~~each~~ of a plurality of user input elements of the controlling device whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a ~~corresponding to the select~~ one or more of the plurality of individual command function entries ~~codes~~ from within the provisioned codeset record that was mapped to the one of the plurality of user input element activated

~~thereto~~; and

causing the controlling device to transmit a command communication ~~corresponding to a generically-labeled command code~~ by using the protocol and formatting information and the command data of a ~~corresponding~~ one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of a generic label name which corresponds to voice data provided ~~in response~~ to a ~~the~~ speech recognition engine ~~receiving voice data indicative of the generically-labeled command code from within the codeset when the generically-labeled command code from within the codeset is not caused to be mapped to any of the plurality of user input elements of the controlling device~~.

2. (Cancelled)

3. (Currently Amended) The method as recited in claim ~~2~~ 1, wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data.

4. (Currently Amended) The method as recited in claim ~~3~~ 26, wherein the controlling device comprises a memory having stored therein the library of codeset records ~~codesets~~.

5. (Currently Amended) The method as recited in ~~claim 4~~ claim 1, wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine.

6. (Currently Amended) The method as recited in claim ~~3~~ 1, wherein the speech recognition engine is executed on a computing device remote from the controlling device.

7. (Currently Amended) The method as recited in claim 26, wherein the library of codeset records ~~codesets~~ is stored remotely from the controlling device and the ~~at least one~~ codeset is provisioned to the controlling device from the library of codeset records by being downloaded thereto.

8. (Currently Amended) The method as recited in claim 1, wherein the ~~library of codesets is stored remotely from the controlling device and~~ the ~~at least one~~ codeset is provisioned to the controlling device by being downloaded thereto.

9. (Currently Amended) The method as recited in claim 1, wherein the method comprises receiving at the speech recognition engine voice data for mapping each of the less than all ~~the select one or more~~ of the individual command function entries ~~command codes~~ from within the provisioned codeset record to the one or more ~~each~~ of the plurality of user input elements of the controlling device.

10. (Cancelled)

11. (Currently Amended) The method as recited in claim 1, comprising using at least ~~wherein~~ location data to identify ~~is additionally utilized in the process of identifying~~ the ~~at least one~~ codeset record that is caused to be provisioned to the controlling device ~~cross-referenced to the brand of the target appliance~~.

12. (Currently Amended) The method as recited in claim 26, wherein location data is additionally utilized in the process of identifying the ~~at least one~~ codeset record that is caused to be provisioned to the controlling device ~~cross-reference to the model of the target~~

~~appliance~~.

13. (Currently Amended) A system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a ~~speech recognition engine to use received voice data indicative of at least a brand of the target appliance to identify within a library of codesets at least one codeset that is cross-referenced to the brand of the target appliance, cause the at least one~~ codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance wherein the provisioned codeset record comprises protocol and formatting information and a series of individual command function entries each of which comprises command data and one or more of which comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced; cause ~~a select one or more~~ less than all of the individual command codes from within the provisioned codeset record to each be mapped to ~~each of a~~ one or more of a plurality of user input elements of the controlling device wherein a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a corresponding ~~to the select~~ one or more of the plurality of individual command function entries ~~codes~~ from with the provisioned codeset record that was mapped ~~thereto~~ to the one of the plurality of user input elements activated, and cause the controlling device to transmit a command communication ~~corresponding to a generically labeled command code~~ by using the protocol and formatting information and the command data of a ~~corresponding~~ one of the one or more of the plurality of individual command function entries

from within the provisioned codeset record having a phonetic representation of a generic label name which corresponds to voice data provided ~~in response~~ to a ~~the~~ speech recognition engine ~~receiving voice data indicative of the generically labeled command code from within the codeset when the generically labeled command code from within the codeset is not caused to be mapped to any of the plurality of user input elements of the controlling device~~.

14. (Original) The system as recited in claim 13, wherein the instructions are downloaded to the controlling device in a downloadable app.

15. (Original) The system as recited in claim 14, wherein the controlling device comprises one of a smart phone or a tablet computing device.

16. (Cancelled)

17. (Currently Amended) The system as recited in claim ~~16~~ 13, wherein the controlling device comprises a memory having stored therein a ~~the~~ library of codeset records including the provisioned codeset record ~~codesets~~.

18. (Currently Amended) The system as recited in claim ~~16~~ 13, wherein a ~~the~~ library of ~~codesets~~ codeset records is stored remotely from the controlling device and the ~~at least one~~ codeset is provisioned to the controlling device from the library of codeset records by being downloaded thereto.

19. (Original) The system as recited in claim 13, wherein the processing device comprises one or more computing devices located remotely from the controlling device.

20. (Cancelled)

21. (Cancelled)

22. (Currently Amended) The system as recited in claim 13, wherein the instructions use voice data received by the speech recognition engine to map each of the less than all of the ~~select one or more~~ command function entries ~~codes~~ from within the provisioned codeset record to ~~each of~~ the one or more of the plurality of user input elements of the controlling device.

23. (Cancelled)

24. (Currently Amended) The system as recited in claim 13, wherein the instructions additionally use at least ~~cause~~ location data to identify ~~be considered when identifying~~ the ~~at least one~~ codeset that is provisioned to the controlling device ~~cross-referenced to the brand of the target appliance~~.

25. (Cancelled)

26. (New) The method as recited in claim 1, comprising receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codeset records the codeset record that is caused to be provisioned to the controlling device.

REMARKS

In the application claims 1, 3-9, 11-15, 17-19, 22, 24, and 26 remain pending. Claims 2, 10, 16, 20, 21, 23, and 25 have been cancelled without prejudice. The claims as amended find support in the application as originally filed (for example, see Fig. 7B and paragraph 0040 of the subject application). As such, no new matter has been added.

The pending claims currently stand rejected under 35 U.S.C. § 103 as being rendered obvious by Huang (U.S. Application No. 2009/0254778) in view of Cane (U.S. Application No. 2006/0235701).

The reconsideration of this rejection is respectfully requested.

It has been acknowledged that Huang does not disclose, teach, or suggest causing a controlling device to transmit a command communication in response to a spoken command as claimed, i.e., by using protocol and formatting information and command data of a one of a plurality of individual command function entries *from within a codeset provisioned to a controlling device* where the one of the plurality of individual command function entries *from within the codeset provisioned to the controlling device* has a phonetic representation of a generic label name which corresponds to voice data provided to a speech recognition engine.

Considering now Cane, it is respectfully submitted that Cane does not disclose the claimed element of provisioning to a controlling device a codeset record where the codeset record - as provisioned to the controlling device - comprises protocol and formatting information and a series of individual command function entries each of which comprises command data and one or more of which comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced. Accordingly, it is respectfully submitted that Cane cannot be said to disclose using protocol and formatting information and command data of a one of a plurality of individual command function entries *from within a codeset provisioned to a*

controlling device where the one of the plurality of individual command function entries has a phonetic representation of a generic label name which corresponds to voice data provided to a speech recognition engine as further claimed.

Rather than disclose a system in which a controlling device is provisioned with a codeset record having protocol and formatting information and a series of individual command function entries each of which comprises command data and one or more of which comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced, Cane discloses a system in which a command corpus of standard phrases usable when performing an activity is defined and a system in which commands *in an already provisioned* control code list for a particular device, e.g., a Philips TV, model TP27, are thereafter "added to" or "contributed" to the previously defined command corpus. (Para. 0118-0122, emphasis added).

Thus, because neither Huang nor Cane disclose provisioning to a controlling device a codeset record where the codeset record - *as provisioned to the controlling device* - comprises protocol and formatting information and a series of individual command function entries each of which comprises command data and one or more of which comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced and/or causing a command communication to be transmitted by using protocol and formatting information and command data of a one of a plurality of individual command function entries *from within the codeset that was provisioned to the controlling device* where the one of the plurality of individual command function entries has a phonetic representation of a generic label name which corresponds to voice data provided to a speech recognition engine it is respectfully submitted that the combination of Huang and Cane cannot be said to present a *prima facie* case of obviousness. For at least this reason, it is respectfully submitted that the rejection of the

claims under 35 U.S.C. § 103 based upon the combination of Huang and Cane must be withdrawn.

CONCLUSION

It is respectfully submitted that the application is now in good and proper form for allowance. Such action on the part of the Examiner is respectfully requested.

Respectfully Submitted;

/Gary Jarosik/

Date: June 4, 2014

By: Gary R. Jarosik, Reg. No. 35,906
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Electronic Patent Application Fee Transmittal

Application Number:	13298629
Filing Date:	17-Nov-2011
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Attorney Docket Number:	81230.156US1

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Request for Continued Examination	1801	1	1200	1200
		Total in USD ($)		**1200**

Electronic Acknowledgement Receipt

EFS ID:	19206266
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	04-JUN-2014
Filing Date:	17-NOV-2011
Time Stamp:	12:04:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1200
RAM confirmation Number	8888
Deposit Account	502428
Authorized User	

File Listing:

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

1	Transmittal Letter	TransmittalForm_13298629.pdf	146971 f93240701a39f5bf3aeb159be1d14fc9006ed0b5	no	1
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	RCE_13298629.pdf	697827 58acbd8c4aa93ae646ff8d9da58e25ec8b36fc4e	no	3
Warnings:					
Information:					
3		RespAF_13298629.pdf	140987 865baea3b04f68fe22ecd55896a3e1c1215bd824	yes	10
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	1	
	Claims		2	7	
	Applicant Arguments/Remarks Made in an Amendment		8	10	
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30418 06015bdede8a4becf7c42a19fffb8bb34ebb5676	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1016203		

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

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

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

Doc Code: TRAN.LET
Document Description: Transmittal Letter

PTO/SB/21 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	13

Application Number	13/298,629
Filing Date	11/17/2011
First Named Inventor	Jonathan Lim
Art Unit	2658
Examiner Name	Estes, Ernest Langston
Attorney Docket Number	81230.156US1

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
- ☑ Fee Attached
- ☑ Amendment/Reply
- ☑ After Final
- ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
- ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
- ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☑ Other Enclosure(s) (please Identify below):

RCE

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Greenberg Traurig, LLP - Customer No. 34018		
Signature	/Gary R. Jarosik/		
Printed name	Gary R. Jarosik		
Date	June 4, 2014	Reg. No.	35,906

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	/Gladys Negron-Munoz/		
Typed or printed name	Gladys Negron-Munoz	Date	June 4, 2014

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 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, 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/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/298,629	Filing Date 11/17/2011	☐ 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	06/04/2014	(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))	* 19	Minus	** 25	= 0	X $80 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $420 =	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
/DIANE JOHNSON/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 07/14/2014

GREENBERG TRAURIG, LLP (CHI)
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SUITE 3100
CHICAGO, IL 60601-1732

EXAMINER	
DORVIL, RICHEMOND	
ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
07/14/2014	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):

chiipmail@gtlaw.com
escobedot@gtlaw.com
jarosikg@gtlaw.com

Office Action Summary	Application No. 13/298,629	Applicant(s) LIM, JONATHAN	
	Examiner ERNEST ESTES	Art Unit 2658	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 *4/9/2014*.

☐ 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) *1,3-9,11-15,17-19,22,24 and 26* 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, 3-9, 11-15, 17-19, 22, 24, and 26* 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 *11/17/2011* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

DETAILED ACTION

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

Response to Arguments

1. Applicant's arguments, see Remarks page 8-9, filed 6/4/2014, with respect to the rejection(s) of claim(s) 1 under ***35 USC § 103*** have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Huang (Pub. No.: US2008/0059193 A1).

2. As a point of clarification, the Applicant argues that is it has been acknowledged that "Huang does not disclose, teach, or suggest causing a controlling device to transmit a command communication in response to a spoken command as claimed, i.e., by using protocol and formatting information and command data of a one of a plurality of individual command function entries *from within a codeset provisioned to a controlling device* where the one of the plurality of individual command function entries *from within the codeset provisioned to the controlling device* has a phonetic representation of a generic label name which corresponds to voice data provided to a speech recognition engine" (Remarks, 6/4/14, Page 8, 5th Paragraph).

In response to this allegation, the Examiner submits that the currently amended limitations referred to above (claim 1, beginning with "causing the controlling device to transmit…") are substantially different in scope than the corresponding limitations (beginning similarly with "causing the controlling device to transmit…") addressed in the

previous action (Final Action, 4/9/2014). For example the previous claim 1, addressed in the most recent office action (Final Action, 4/9/2014), included the language "when the generically labeled command code from within the codeset is not caused to be mapped to any of the plurality of user input elements of the controlling device." The current claim language does not include this language or concept. Hence, characterizing the previous rejection drawn to a claim 1 as an acknowledgement that Huang does not teach a feature of the currently amended claim 1 is not appropriate.

Response to Amendment

3. Claims 1, 3-9, 11-15, 17-19, 22, 24, and 26 are pending. Claims 2, 10, 16, 20-21, 23, and 25 are cancelled, claims 1, 3-9, 11-13, 17-18, 22, and 24 have been added and claim 26 has been amended. All pending claims are addressed below.

Claim Rejections - 35 USC § 103

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

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

5. Claims 1, 3, 5-6, 8-9, 11, 13-15, 17-19, 22, 24, 26, 4, 7, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (Pub. No.: US2009/0254778

A1) in further view of Huang (Pub. No.: US2008/0059193 A1), henceforth referred to as Huang193.

Regarding claim 1, Huang teaches a method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

causing a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance, the provisioned codeset record comprising protocol and formatting information and a series of individual command function entries wherein each of the series of individual function entries comprises command data (paragraph [0152] discloses that the appropriate codeset with command and IR format information is selected to be used to control the selected/target device, i.e. the appropriate codeset is provisioned to enable control of the target/selected device via commands);

causing less than all of the individual command function entries from within the provisioned codeset record to each be matched to one or more of a plurality of user input elements of the controlling device whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one or more of the plurality of individual command function entries from within the provisioned codeset record that was mapped to the one of the plurality of user input element activated (paragraph [0180] discloses mapping functions/entries to icons buttons and paragraph [0184] discloses mapping functions/entries to user input

elements/hard buttons and further, figure 18 discloses the mapping of a button to command codes from within the codeset); and

causing the controlling device to transmit a command communication by using the protocol and formatting information and the command data of one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of a generic label name which corresponds to voice data provided to a speech recognition engine (paragraph [0068] discloses that user input can be speech recognized and used to initiate the action map in figure 18 which shows that user voice input results the transmission of properly formatted IR codes to perform particular command functions entries).

Huang fails to teach wherein each of one or more of the series of individual command function entries comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced.

However in the same field of voice controlled devices Huang193 teaches wherein each of one or more of the series of individual command function entries comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced (Huang193, paragraph [0024] and figure 2b disclose command function entries that comprise phonetic representation/data 24b and 24c reference generic labels 20b).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the entries in the codeset of Huang to include the default and

adaptive phonetic data as taught by Huang193 in order to enhance voice recognition performance through personalization to the specific user (Huang193, paragraphs [0024]).

Regarding claim 3, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and further teaches wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data (Huang, paragraphs [0005] and [0030] disclose that the method of the invention is drawn towards implementing remote configuration on various types of hand-held devices including an extended-functionality phone which obviously possess a microphone for receiving voice input and data).

Regarding claim 5, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and further teaches wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine (Huang, figure 5 discloses a User Input 510 which paragraph [0068] explain can include speech recognition from software resident on the controlling device/PDA).

Regarding claim 6, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and while a speech recognition engine executing on a computing device remote from the controlling device is not explicitly taught, server-based/off-board/remote speech recognition is well known within the art speech

processing, especially for portable devices with restricted processing capabilities. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the onboard speech recognition of Huang with the well-known practice of using an off-board/remotely located or server-based speech recognition since the motivation of such a combination would be well known. Specifically, the motivation for using a computing device remote from the controlling device to execute speech recognition is to take advantage of more powerful processing available on larger computers/servers in order to enable more accurate speech recognition without consuming excessing power, computing resources and/or physical space on a hand-held/portable device that would otherwise be required for comparable performance.

Regarding claim 8, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and further teaches wherein the codeset is provisioned to the controlling device by being downloaded thereto (at least Huang, paragraphs [0037], [0039], [0114], [0128], [0152] and [0227] disclose the download of remotely stored codesets to the controlling device).

Regarding claim 9, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and further teaches wherein the method comprises receiving at the speech recognition engine voice data for mapping each of the less than all of the individual command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device. (Huang,

paragraph [0128] discloses the reassignment of functions/commands to activatable function keys/user input elements based on user's input/selection which paragraph Huang [0068] already teaches can be in the form of speech recognized voice data).

Regarding claim 11, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and further teaches using at least location data to identify the codeset record that is caused to be provisioned to the controlling device (Huang, paragraph [0317] discloses the use of a region/location data to present the most likely codeset to the user during the codeset identification and provisioning process to improve usability).

Regarding claim 13, Huang teaches a system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance wherein the provisioned codeset record comprises protocol and formatting information and a series of individual command function entries each of which comprises command data (in Huang, paragraph [0068] discloses using speech recognition as user input, paragraph [0152] discloses that the appropriate codeset with command and IR format information is selected to be used to control the selected/target device, i.e. the appropriate codeset is provisioned to enable

control of the target/selected device via command and paragraphs [0032-0033] disclose that these functions are implemented on software/computer executable on a processing device/PDA);

cause less than all of the individual command codes from within the provisioned codeset record to each be mapped to one or more of a plurality of user input elements of the controlling device wherein a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a corresponding one or more of the plurality of individual command function entries from with the provisioned codeset record that was mapped thereto to the one of the plurality of user input elements activated (paragraph [0180] discloses mapping functions/entries to icons buttons and paragraph [0184] discloses mapping functions/entries to user input elements/hard buttons and further, figure 18 discloses the mapping of a button to command codes from within the codeset), and

cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of a generic label name which corresponds to voice data provided to a speech recognition engine (paragraph [0068] discloses that user input can be speech recognized and used to initiate the action map in figure 18 which shows that user voice input results the transmission of properly formatted IR codes to perform particular command functions entries).

Huang fails to teach that and one or more of the command entries comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced.

However in the same field of voice controlled devices Huang193 teaches wherein one or more of the command entries comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced (Huang193, paragraph [0024] and figure 2b disclose command function entries that comprise phonetic representation/data 24b and 24c reference generic labels 20b).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the entries in the codeset of Huang to include the default and adaptive phonetic data as taught by Huang193 in order to enhance voice recognition performance through personalization to the specific user (Huang193, paragraphs [0024]).

Regarding claim 14, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions are downloaded to the controlling device in a downloadable app (Huang, figure 3 discloses that the PDA software/applications which comprise instruction to implement the remote configuration process are stored/downloaded to the hand-held device).

Regarding claim 15, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 14 and further teaches wherein the controlling device comprises one of a smart phone or a tablet computing device (Huang, paragraphs [0005] and [0030] disclose that the method of the invention is drawn towards implementing remote configuration on various types of hand-held controlling devices including an extended-functionality/smart phone and a tablet computing device).

Regarding claim 17, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and further teaches wherein the controlling device comprises a memory having stored therein a library of codeset records including the provisioned codeset (Huang, figure 5 discloses a User IR Code DB 544 which is a codeset stored/provisioned in memory on the controlling device).

Regarding claim 18, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and further teaches wherein a library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records by being downloaded thereto (Huang, figure 3 discloses the remote storage of an IR Database/codeset for downloading to the controlling device).

Regarding claim 19, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and while limitation that the processing device comprises one or more computing devices located remotely from the controlling device is not explicitly taught, server-based/off-board/remote speech recognition engines or processing devices are well known within the art speech processing, especially for portable devices with restricted processing capabilities. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the onboard speech recognition engine of Huang with the well-known practice of using off-board/remotely located speech recognition engines or processing devices since the motivation of such a combination would be well known. Specifically, the motivation for using a computing device remote from the controlling device to execute speech recognition is to take advantage of more powerful processing available on larger computers/servers in order to enable more accurate speech recognition without consuming excessing power, computing resources and/or physical space on a hand-held/portable device that would otherwise be required for comparable performance.

Regarding claim 22, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions use voice data received by the speech recognition engine to map each of the less than all of the command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device

(Huang, paragraph [0128] discloses the reassignment of functions/commands to activatable function keys/user input elements based on user's input/selection which paragraph [0028] already teaches can be in the form of speech recognized voice data).

Regarding claim 24, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions additionally use at least location data to identify the codeset that is provisioned to the controlling device (Huang, paragraph [0317] discloses the use of a region/location data to present the most likely codeset to the user during the codeset identification and provisioning process to improve usability).

Regarding claim 26, the combination of Huang and Huang193 teaches the method of configuration of claim 1 further teaches receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codeset records the codeset record that is caused to be provisioned to the controlling device (Huang paragraph [0068] teaches using speech recognition as user input and paragraph [0155] teaches taking/receiving user input indicative of a manufacture/brand to identify a codeset to be provisioned to the controlling device).

Regarding claim 4, the combination of Huang and Huang193 teaches the method of configuration of claim 26 and further teaches wherein the controlling device comprises a memory having stored therein the library of codeset records (Huang, figure 5 and paragraph [0114] disclose a User IR Code DB 544 which is stored on the controlling device and contains a library of codesets, i.e. supplemental codes and sets of learned codes).

Regarding claim 7, the combination of Huang and Huang193 teaches the method of configuration of claim 26 and further teaches wherein the library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records (Huang, figure 3 discloses the remote storage of an IR Database/codeset).

Regarding claim 12, the combination of Huang and Huang193 teaches the method of configuration of claim 26 and further teaches wherein location data is additionally utilized in the process of identifying the codeset record that is caused to be provisioned to the controlling device (Huang paragraph [0317] teaches the use of region/location data in the process of identifying codesets for a target appliance).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and is listed on the Notice of References Cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERNEST ESTES whose telephone number is (571)270-3856. The examiner can normally be reached on Monday-Friday, 9A to 5P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rich Dorvil can be reached on (571)272-7602. 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.

/ERNEST ESTES/

Examiner, Art Unit 2658

/RICHEMOND DORVIL/
Supervisory Patent Examiner, Art Unit 2658

Notice of References Cited	Application/Control No. 13/298,629	Applicant(s)/Patent Under Reexamination LIM, JONATHAN	
	Examiner ERNEST ESTES	Art Unit 2658	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2005/0043067 A1	02-2005	Odell et al.	455/569.2
*	B	US-2005/0038654 A1	02-2005	Emonts et al.	704/256
*	C	US-7,006,974 B2	02-2006	Burchard et al.	704/275
*	D	US-2006/0235701 A1	10-2006	Cane et al.	704/275
*	E	US-2008/0059193 A1	03-2008	Huang et al.	704/260
*	F	US-2010/0333163 A1	12-2010	Daly, Curtis N.	725/133
*	G	US-2010/0321201 A1	12-2010	Huang et al.	340/825.22
	H	US-			
	I	US-			
	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					
	O					
	P					
	Q					
	R					
	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.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	Art Unit
	ERNEST ESTES	2658

CPC- SEARCHED		
Symbol	Date	Examiner
G10L21/00	3/31/2014	EE
G10L15/265	3/31/2014	EE
G10L21/00; G10L15/265	7/3/2014	EE

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
704	231, 270, 275	9/24/2013	EE
340	12.22, 12.23, 12.28	9/27/2013	EE
348	734	9/27/2013	EE
704	231, 270, 275	3/31/2014	EE
340	12.22, 12.23, 12.28	3/31/2014	EE
348	734	3/31/2014	EE
704	231, 270, 275	7/3/2014	EE
340	12.22, 12.23, 12.28	7/3/2014	EE
348	734	7/3/2014	EE

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search	9/24/2013	EE
GoogleScholar NPL search	9/24/2013	EE
Keyword text search and keyword w/ date and/or class/subclass	9/24/2013	EE
Consulted primary D. Godbold	9/27/2013	EE
Consulted SPE R. Dorvil on final	3/26/2014	EE
Updated EAST and GoogleScholar searches	3/30/2014	EE
Updated EAST and GoogleScholar searches	7/3/2014	EE
Consulted Primary D. Godbold	7/1/2014	EE

/ERNEST ESTES/ Examiner.Art Unit 2658	

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

/ERNEST ESTES/ Examiner.Art Unit 2658	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	Art Unit
	ERNEST ESTES	2658

✓	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	09/24/2013	03/31/2014	07/03/2014						
	1	✓	✓	✓						
	2	✓	✓	-						
	3	✓	✓	✓						
	4	✓	✓	✓						
	5	✓	✓	✓						
	6	✓	✓	✓						
	7	✓	✓	✓						
	8	✓	✓	✓						
	9	✓	✓	✓						
	10	✓	-	-						
	11	✓	✓	✓						
	12	✓	✓	✓						
	13	✓	✓	✓						
	14	✓	✓	✓						
	15	✓	✓	✓						
	16	✓	✓	-						
	17	✓	✓	✓						
	18	✓	✓	✓						
	19	✓	✓	✓						
	20	✓	✓	-						
	21	✓	✓	-						
	22	✓	✓	✓						
	23	✓	-	-						
	24	✓	✓	✓						
	25	✓	✓	-						
	26			✓						

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	6	(Jonathan near3 Lim).in. AND ((remote) near5 (control$4 universal)) AND (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 15:30
S2	17	(Jonathan near3 Lim).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 15:30
S3	14	(("4703359") or ("4959810") or ("5255313") or ("5515052") or ("5552917") or ("5614906") or ("7093003") or ("7612685") or ("20100321201") or ("20050114141") or ("20070118381") or ("20110289113") or ("20070005370") or ("20090292375")).PN.	US-PGPUB; USPAT	OR	OFF	2013/09/24 15:42
S4	5	(("20100321201") or ("20050114141") or ("20070118381") or ("20110289113") or ("20070005370")).PN.	US-PGPUB; USPAT	OR	OFF	2013/09/24 15:45
S5	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:08
S6	0	("2010/0321201").URPN.	USPAT	OR	ON	2013/09/24 16:12
S7	735	(universal near2 electronics).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:21
S8	95	(universal near2 electronics).as. AND (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2013/09/24 16:21

			DERWENT; IBM_TDB			
S9	78	(universal near2 electronics).as. AND ((voice speech speak$3) same (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:21
S10	12	(universal near2 electronics).as. AND ((voice speech speak$3) near15 (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:21
S11	9	(universal near2 electronics).as. AND ((voice speech speak$3) near15 (program$4 provision$3 setup)) AND S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:22
S12	26	(universal near2 electronics).as. AND ((voice speech speaking spoken) same (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:25
S13	6	(universal near2 electronics).as. AND ((voice speech speaking spoken) near15 (program$4 provision$3 setup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:26
S14	378	(universal AND remote).ti. AND (infrared)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:28
S15	5705	(704/231 704/270 704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 16:31
S16	1517	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:26
S17	2439	(348/734).ccls.	US-PGPUB; USPAT; USOCR;	OR	ON	2013/09/24 17:27

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S18	3	(configur$4 setup program$4 provision$3) same (remote) same (brand) same (model) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:28
S19	2845	(configur$4 setup program$4 provision$3) same (remote) same (mic microphone) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:30
S20	1032	(configur$4 setup program$4 provision$3) same (remote near5 control$4) same (mic microphone) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:30
S21	1566	(configur$4 setup program$4 provision$3) same (remote near5 control$4) same ((tablet) (smart near2 (phone device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 17:31
S22	1	(configur$4 program$4 provision$3) near5 (remote) same (brand) same (model) same (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/24 18:20
S23	1	("20090254778").PN.	US-PGPUB; USPAT	OR	OFF	2013/09/25 12:47
S24	10	(programming near8 remote same model same brand same type)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:22
S25	12	(programming near8 remote same (model brand manufacture) same (voice speech speak speaking))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:30
S26	114	(programming near8 remote) same ((typ$3 speak speaking enter$3) near5 (model brand manufacture))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2013/09/25 22:32

			IBM_TDB			
S27	1	(programming near8 remote) same ((speak speaking) near5 (model brand manufacture))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:34
S28	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:35
S29	97	(programming near8 remote) same ((typ$3 speak speaking enter$3) near5 (model brand manufacture)) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:35
S30	61	(programming near8 remote) same ((typ$3 speak speaking enter$3) near5 (model brand manufacture)) AND (PDA phone) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:38
S31	61	(programming near8 remote) same ((typ$3 enter$3) near5 (model brand manufacture)) AND (PDA phone) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:50
S32	58	(programming near8 remote) same ((typ$3) near5 (model brand manufacture)) AND (PDA phone) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 22:50
S33	216	(palm near3 pilot) same (remote) same (configur$5 program$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 23:21
S34	139	(PDA phone).ab. AND (universal near3 remote).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/25 23:22
S35	5	(PDA phone).ab. AND (universal near3 remote).ab. AND (brand model)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	2013/09/25 23:22

			JPO; DERWENT; IBM_TDB			
S36	81	(palm).as. AND (remote near3 control$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:36
S37	9	(palm).as. AND (remote near3 control$4) AND (model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:37
S38	0	(palm).as. AND ((remote near8 control$4) same (program$4)) AND (model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:38
S39	7	(palm).as. AND ((remote near8 control$4) same (program$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:38
S40	110	(remote near3 control$4) near8 (program$4) same ((enter$3 select$3 typ$3) near3 (model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:39
S41	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:40
S42	91	(remote near3 control$4) near8 (program$4) same ((enter$3 select$3 typ$3) near3 (model)) AND (S41)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:40
S43	11	(remote near3 control$4) near8 (program$4) same ((enter$3 select$3 typ$3) near3 (model adj (name number))) AND (S41)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/26 05:46
S44	7	(remote near3 control$4) near8 (program$4) same ((enter$3 typ$3)	US-PGPUB; USPAT;	OR	ON	2013/09/26 05:58

		near3 (model adj (name number))) AND (S41)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S45	915	(remote near5 control$4) same (mic microphone) same (speech speaking voice) near5 command	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:53
S46	285	(remote near5 control$4) same (IR infrared) same (mic microphone) same (speech speaking voice) near5 command	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:55
S47	50204020	(@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:55
S48	197	(remote near5 control$4) same (IR infrared) same (mic microphone) same (speech speaking voice) near5 command AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 19:55
S49	5705	(704/231 704/270 704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11
S50	1520	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11
S51	2441	(348/734).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11
S52	55	(remote near5 control$4) same (mic microphone) same (speech speaking voice) near5 command AND (S49 S50 S51)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:11

S53	11	(remote near5 control$4) same (mic microphone) same (config configuration configuring program$4) same (speech speaking voice) near5 command AND (S49 S50 S51)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:12
S54	46	(remote near5 control$4) same (mic microphone) same (config configuration configuring program$4) same (speech speaking voice) AND (S49 S50 S51)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:12
S55	33	(remote near5 control$4) same (mic microphone) same (config configuration configuring program$4) same (speech speaking voice) AND (S49 S50 S51) AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:12
S56	176	(remote near5 control$4) same (config configuration configuring program$4) same (speech speaking voice) AND (S49 S50 S51) AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:14
S57	149	(remote near5 control$4) same (config configuration configuring program$4) same (model) AND (S49 S50 S51) AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:14
S58	266	(remote near5 control$4) same (config configuration configuring program$4) same (brand manufacturer) AND (S49 S50 S51) AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:15
S59	64	(remote near5 control$4) same (config configuration configuring program$4) same ((select$3 enter$3 typ$3) near3 (brand manufacturer)) AND (S49 S50 S51) AND S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/27 20:15
S60	1	("20130132094").PN.	US-PGPUB; USPAT	OR	OFF	2014/03/26 10:11
S61	2606	(remote near5 control$4) AND (IR infrared) AND (mic microphone) same (speech speaking voice) near5 command	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:19
S62	19225	(remote near5 (control$4 universal)) AND ((recall return last previous back) near8 channel)	US-PGPUB; USPAT; USOCR;	OR	ON	2014/03/26 10:24

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S63	802	(remote near5 (control$4 universal)) AND ((recall return last previous back) near8 channel) same (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:24
S64	639	(remote near5 (control$4 universal)) AND ((recall return last previous back) near5 channel) same (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:24
S65	312	(remote near5 (control$4 universal)) AND ((recall return last previous back) near5 channel) with (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:24
S66	0	(remote near5 (control$4 universal)) AND ((recall return last previous back) near5 channel) with (voice speech) same (button key) near6 (missing without)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:29
S67	41	(remote near5 (control$4 universal)) AND ((recall return last previous back) near5 channel) with (voice speech) same (button key)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/26 10:29
S68	28207	(remote near5 (control$4 universal)) same (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 20:56
S69	5203	(remote near5 (control$4 universal)) same (voice speech) same button	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 20:56
S70	8	(remote near5 (control$4 universal)) same (voice speech) same button same mic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 20:57
S72	1088	(remote near5 (control$4	US-PGPUB;	OR	ON	2014/03/30

		universal)) same (voice speech) same button same (mic microphone) AND (@PD <"20111117")	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:59
S73	91	(remote near5 (control$4 universal)).ab. same (voice speech) same button same (mic microphone) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 21:05
S74	383	(remote near5 (control$4 universal)).ab. AND (voice speech) same button same (mic microphone) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 21:05
S75	101	(remote near5 (control$4 universal)).ab. AND (voice speech) same command same button same (mic microphone) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 21:06
S76	4	(remote near5 (control$4 universal)).ab. AND (voice speech) same command same button with many same (mic microphone) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 21:40
S77	2	("2006/0235701").URPN.	USPAT	OR	ON	2014/03/30 21:49
S78	2	(("6553345") or ("6747566")).PN.	US-PGPUB; USPAT	OR	OFF	2014/03/30 21:51
S79	141	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 21:52
S80	24	(remote near5 (control$4 universal)).ab. AND (voice speech) same (reduc$4 smaller lower) same button near8 (count number) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 22:01
S81	16	(remote near5 (control$4 universal)).ab. AND (voice speech) same (reduc$4 smaller lower) with button near8 (count number) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/30 22:01
S82	8	S80 not S81	US-PGPUB;	OR	ON	2014/03/30

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			22:04
S83	2421	(704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 10:54
S84	7560	(704/270 704/275).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 10:54
S85	1700	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 10:54
S86	2754	(348/734).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 10:55
S87	8126	(G10L21/00 G10L15/265).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 10:55
S88	2421	(704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:22
S89	7560	(704/270 704/275).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S90	1700	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/03/31 12:23

			IBM_TDB			
S91	2754	(348/734).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S92	8126	(G10L21/00 G10L15/265).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S93	0	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117") AND S88	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S94	8	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117") AND S89	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S95	2	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117") AND S90	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S96	7	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117") AND S91	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S97	5	(remote near5 (control$4 universal)).ab. AND (voice speech) same button near8 (count number) AND (@PD <"20111117") AND S92	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:23
S98	7	(Jonathan near3 Lim).in. AND ((remote) near5 (control$4 universal)) AND (speech voice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/31 12:31
S102	3067	(programmable with remote with control$4) AND provision$3	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	2014/06/30 14:04

			JPO; DERWENT; IBM_TDB			
S103	164	(programmable with remote with control$4) AND provision$3 near8 (code codeset function)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/06/30 14:05
S104	20797	(programmable universal) near8 remote	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/06/30 14:07
S105	155	(programmable universal) near8 remote AND (phoneme phonetic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/06/30 14:09
S106	5	(programmable universal) near8 remote same (phoneme phonetic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/06/30 14:09
S107	103	(codeset) AND remote near8 (program$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/06/30 17:37
S108	30	(codeset) same (brand) AND remote near8 (program$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/06/30 17:38
S109	1	(codeset) same (brand) AND remote near8 (program$5) AND (voice speech)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/06/30 17:38
S110	0	("2013/0132094").URPN.	USPAT	OR	ON	2014/06/30 17:38
S111	5	(codeset) same (voice speech phoneme phonemic) AND remote near8 (program$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/06/30 17:39

S112	17473	(command function) same (voice speech phoneme phonemic) AND remote near8 (program$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/06/30 17:40
S113	4	(command function) same (phoneme phonemic) same remote near8 (program$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/06/30 17:41
S114	620	(command function) with table same remote near8 (program$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/02 19:26
S115	0	(command function) with table same (prosod$2 phoneme phonemic pronunciation pronunc$4) same remote near8 (program$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/02 19:37
S116	228	(command function) with table same (prosod$2 phoneme phonemic pronunciation pronunc$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/02 19:37
S117	193	(command function) with table same (prosod$2 phoneme phonemic pronunciation pronunc$4) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/02 19:38
S118	10	(command function) with table same (prosod$2 phoneme phonemic pronunciation pronunc$4) AND (remote near5 (control$4 universal)) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/02 19:39
S119	133	(command function) with table with (prosod$2 phoneme phonemic pronunciation pronunc$4) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/02 19:47
S120	69	(prosod$2 phoneme phonemic pronunciation pronunc$4) near8 (command function) with table AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2014/07/02 19:53

			DERWENT; IBM_TDB			
S121	4	(prosod$2 phoneme phonemic pronunciation pronunc$4) near8 (command function) with table AND (@PD <"20111117") AND (remote near5 (universal control))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/02 19:54
S122	35	(prosod$2 phoneme phonemic pronunciation pronunc$4) near8 (command) with table AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/02 20:24
S123	2560	(704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/03 18:06
S124	6700	(704/231 704/270 704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/03 18:06
S125	1775	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/03 18:06
S126	2892	(348/734).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/03 18:06
S127	8331	(G10L21/00 G10L15/265).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/03 18:07
S128	133	(command function) with table with (prosod$2 phoneme phonemic pronunciation pronunc$4) AND (@PD <"20111117")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:46
S129	2572	(704/231).ccls.	US-PGPUB; USPAT; USOCR;	OR	ON	2014/07/07 10:46

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S130	6723	(704/231 704/270 704/231).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:46
S131	1782	(340/12.22 340/12.23 340/12.28).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:47
S132	2903	(348/734).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:47
S133	8342	(G10L21/00 G10L15/265).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:47
S134	30	S128 AND S130	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:47
S135	1	S128 AND S131	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:47
S136	1	S128 AND S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:47
S137	12	S128 AND S133	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:47
S138	193	(command function) with table	US-PGPUB;	OR	ON	2014/07/07

		same (prosod$2 phoneme phonemic pronunciation pronunc$4) AND (@PD <"20111117")	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			10:47
S139	37	S138 AND S130	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:48
S140	1	S138 AND S131	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:48
S141	1	S138 AND S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:48
S142	13	S138 AND S133	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/07 10:48

EAST Search History (Interference)

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7/7/2014 2:16:12 PM
C:\Users\eestes\Documents\EAST\Workspaces\13298629.wsp

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lim	Examiner:	Estes, Ernest Langston
Application No.:	13/298,629	Attny Doc.:	81230.156US1
Filing Date:	November 17, 2011	Art Unit:	2658
Title:	System And Method For Voice Activated Configuration of a Controlling Device		

RESPONSE

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

Dear Sir:

In response to the Office Action dated July 14, 2014 please enter the Amendment To The Claims which begins on page 2 of this paper, and please consider the Remarks which begin on page 7 of this paper.

The Commissioner is authorized to charge any fee deficiency to deposit account number 50-2428 in the name of Greenberg Traurig, LLP.

Certificate of Electronic Transmission: I hereby certify that this document and its attachments are being electronically transmitted to the U.S. Patent and Trademark Office via EFS-Web on this 10th day of October, 2014.

/Gladys Negron-Munoz/
Gladys Negron-Munoz

CHI 65258295v1

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

causing a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance, the provisioned codeset record comprising protocol and formatting information and a series of individual command function entries wherein each of the series of individual function entries comprises command data and wherein each of one or more of the series of individual command function entries having a common command data ~~comprises~~ comprise a phonetic representation of a unique one of a plurality of function name synonyms ~~generic label name~~ by which each of the one or more of the series of individual command function entries having the common command data is to be referenced;

causing less than all of the individual command function entries from within the provisioned codeset record to each be matched to one or more of a plurality of user input elements of the controlling device whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one or more of the plurality of individual command function entries from within the provisioned codeset record that was mapped to the one of the plurality of user input element activated; and

causing the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one of the one or more of the

plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of a ~~generic label name~~ function name synonym which corresponds to voice data provided to a speech recognition engine.

2. (Cancelled)

3. (Previously Presented) The method as recited in claim 1, wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data.

4. (Previously Presented) The method as recited in claim 26, wherein the controlling device comprises a memory having stored therein the library of codeset records.

5. (Previously Presented) The method as recited in claim 1, wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine.

6. (Previously Presented) The method as recited in claim 1, wherein the speech recognition engine is executed on a computing device remote from the controlling device.

7. (Previously Presented) The method as recited in claim 26, wherein the library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records by being downloaded thereto.

8. (Previously Presented) The method as recited in claim 1, wherein codeset is provisioned to the controlling device by being downloaded thereto.

9. (Previously Presented) The method as recited in claim 1, wherein the method comprises receiving at the speech recognition engine voice data for mapping each of the less than all of the individual command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device.

10. (Cancelled)

11. (Previously Presented) The method as recited in claim 1, comprising using at least location data to identify the codeset record that is caused to be provisioned to the controlling device.

12. (Previously Presented) The method as recited in claim 26, wherein location data is additionally utilized in the process of identifying the codeset record that is caused to be provisioned to the controlling device.

13. (Currently Amended) A system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance wherein the provisioned codeset record comprises protocol and formatting information and a series of individual command function entries each of which comprises command data and one or more of ~~which~~ the series of individual command function entries having a common command data comprise ~~comprises~~ a phonetic representation of a unique one of a plurality of function name synonyms ~~generic label name~~ by which each of the one or

more of the series of individual command function entries is to be referenced; cause less than all of the individual command codes from within the provisioned codeset record to each be mapped to one or more of a plurality of user input elements of the controlling device wherein a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a corresponding one or more of the plurality of individual command function entries from with the provisioned codeset record that was mapped to the one of the plurality of user input elements activated, and cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of a ~~generic label name~~ function name synonym which corresponds to voice data provided to a speech recognition engine.

14. (Original) The system as recited in claim 13, wherein the instructions are downloaded to the controlling device in a downloadable app.

15. (Original) The system as recited in claim 14, wherein the controlling device comprises one of a smart phone or a tablet computing device.

16. (Cancelled)

17. (Previously Presented) The system as recited in claim 13, wherein the controlling device comprises a memory having stored therein a library of codeset records including the provisioned codeset record.

18. (Previously Presented) The system as recited in claim 13, wherein a library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records by being downloaded thereto.

19. (Original) The system as recited in claim 13, wherein the processing device comprises one or more computing devices located remotely from the controlling device.

20. (Cancelled)

21. (Cancelled)

22. (Previously Presented) The system as recited in claim 13, wherein the instructions use voice data received by the speech recognition engine to map each of the less than all of the command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device.

23. (Cancelled)

24. (Previously Presented) The system as recited in claim 13, wherein the instructions additionally use at least location data to identify codeset that is provisioned to the controlling device.

25. (Cancelled)

26. (Previously Presented) The method as recited in claim 1, comprising receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance

whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codeset records the codeset record that is caused to be provisioned to the controlling device.

REMARKS

In the application claims 1, 3-9, 11-15, 17-19, 22, 24, and 26 remain pending. Claims 2, 10, 16, 20, 21, 23, and 25 have been cancelled without prejudice. The claims as amended find support in the application as originally filed. As such, no new matter has been added.

The pending claims currently stand rejected under 35 U.S.C. § 103 as being rendered obvious by Huang (U.S. Application No. 2009/0254778) in view of Haung '193 (U.S. Application No. 2008/0059193).

The reconsideration of this rejection is respectfully requested.

It is respectfully noted that claimed invention addresses the problem that users of a remote control device may use different words to refer to a common command function. For example, a command function for causing a device such as a TV set or STB to tune from a currently selected channel to the immediately previous channel may be referred to as any of the following: "Last," "Go Back," "Quick View," "Back," "Jump," "Recall Channel," "Last Channel," "Return Channel," "Return Previous Channel," "Revue," "Flashback," "Swap," "R-Tune," etc. Accordingly, to cater for such synonyms, the claimed invention causes a remote control to be provisioned with a codeset record in which one or more of a series of individual command function entries having a common command data comprise phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced.

It is respectfully submitted that Huang, which does not disclose, teach, or suggest one or more of a series of individual command function entries having a phonetic representation of a generic label name, cannot be said to disclose this claimed element.

Considering now Huang '193, it is respectfully submitted that Huang '193 also fails to disclose, teach, or suggest this claimed element. Specifically, Huang '193 discloses a system *in which a user first provides an adaptive voice keyword 22b to the system.* (¶ 0019).

Thereafter, the system of Huang '193 functions to generate one or default voice keywords 24b, i.e., pronunciation phonemes, *from the user provided adaptive voice keyword 22b.* (¶ 0027-0030). As will be appreciated, because the system of Huang '193 requires a user to specify the single adaptive voice keyword 22b, e.g., "Home" for a phone number, e.g., "123-555-5555," that is to be called when a voice input is determined to match a phoneme representation of that adaptive keyword, the system of Huang '193 is not (and need not be) provisioned with a codeset record in which one or more of a series of individual command function entries having a common command data comprise phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced as claimed. Stated differently, because the system of Huang '193 relies upon a user providing the adaptive keyword to the system, the system of Huang '193 is not (and need not be) concerned with users using different words to refer to a common command function.

Thus, because neither Huang nor Huang '193 disclose, teach, or suggest at least the above noted claim element, it is respectfully submitted that the combination of Huang and Huang '193 cannot be said to present a *prima facie* case of obviousness. For this reason, it is respectfully submitted that the rejection of the claims under 35 U.S.C. § 103 based upon the combination of Huang and Huang '193 must be withdrawn.

CONCLUSION

It is respectfully submitted that the application is now in good and proper form for allowance. Such action on the part of the Examiner is respectfully requested.

Respectfully Submitted;

/Gary Jarosik/

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Greenberg Traurig, LLP
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Electronic Acknowledgement Receipt

EFS ID:	20386799
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	10-OCT-2014
Filing Date:	17-NOV-2011
Time Stamp:	14:37:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	TransmittalForm_13298629.pdf	148046 abc44fe37ff99626cee903a64344658a02e2d537	no	1

Warnings:	
Information:	

2		RespOA_13298629.pdf	136549 874d335d70dc04e512a17ad908243596f93f0b5f	yes	9

	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	9

Warnings:	
Information:	
Total Files Size (in bytes):	284595

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

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

Doc Code: TRAN.LET
Document Description: Transmittal Letter

PTO/SB/21 (07-09)
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	10

Application Number	13/298,629
Filing Date	11/17/2011
First Named Inventor	Jonathan Lim
Art Unit	2658
Examiner Name	Dervil, Richemond
Attorney Docket Number	81230.156US1

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☑ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☐ Other Enclosure(s) (please Identify below):

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Greenberg Traurig, LLP - Customer No. 34018		
Signature	/Gary R. Jarosik/		
Printed name	Gary R. Jarosik		
Date	October 10, 2014	Reg. No.	35,906

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	/Gladys Negron-Munoz/		
Typed or printed name	Gladys Negron-Munoz	Date	October 10, 2014

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 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, 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/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/298,629	Filing Date 11/17/2011	☐ 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	10/10/2014	(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))	* 18	Minus	** 25	= 0	X $80 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $420 =	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
/JACQUELYN WILLIAMS/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 11/10/2014

GREENBERG TRAURIG, LLP (CHI)
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CHICAGO, IL 60601-1732

EXAMINER	
GODBOLD, DOUGLAS	

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
11/10/2014	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):

chiipmail@gtlaw.com
escobedot@gtlaw.com
jarosikg@gtlaw.com

Office Action Summary	Application No. 13/298,629	Applicant(s) LIM, JONATHAN	
	Examiner DOUGLAS GODBOLD	Art Unit 2658	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 *10 October 2014*.

☐ 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) *1,3-9,11-15,17-19,22,24 and 26* 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) *1,3-9,11-15,17-19,22,24 and 26* is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

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

DETAILED ACTION

2. This Office Action is in response to correspondence filed 10 October 2014 in reference to application 13/298629. Claims 1, 3-9, 11-15, 17-19, 22, 24, and 26.

Response to Amendment

3. The amendment filed 10 October 2014 has been accepted and considered in this office action. Claims 1 and 13 have been amended.

Response to Arguments

4. Applicant's arguments with respect to claims 1, 3-9, 11-15, 17-19, 22, 24, and 26 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Claim Rejections - 35 USC § 103

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

6. Claims 1,3, 5-6, 8-9, 11, 13-15, 17-19, 22, 24, 26, 4, 7, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (Pub. No.: US2009/0254778

Application/Control Number: 13/298,629 Page 4 Art Unit: 2658 A1) in view of Huang (Pub. No.: US2008/0059193 A1) ("Huang193") and further in view of Comerford et al. (US Patent 6,748,361).

7. Regarding claim 1, Huang teaches a method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

causing a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance, the provisioned codeset record comprising protocol and formatting information and a series of individual command function entries wherein each of the series of individual function entries comprises command data (paragraph [0152] discloses that the appropriate codeset with command and IR format information is selected to be used to control the selected/target device, i.e. the appropriate codeset is provisioned to enable control of the target/selected device via commands);

causing less than all of the individual command function entries from within the provisioned codeset record to each be matched to one or more of a plurality of user input elements of the controlling device whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one or more of the plurality of individual command function entries from within the provisioned codeset record that was mapped to the one of the plurality of user input element activated (paragraph [0180] discloses mapping functions/entries

to icons buttons and paragraph [0184] discloses mapping functions/entries to user input elements/hard buttons and further, figure 18 discloses the mapping of a button to command codes from within the codeset); and

causing the controlling device to transmit a command communication by using the protocol and formatting information and the command data of one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of a generic label name which corresponds to voice data provided to a speech recognition engine (paragraph [0068] discloses that user input can be speech recognized and used to initiate the action map in figure 18 which shows that user voice input results the transmission of properly formatted IR codes to perform particular command functions entries).

Huang fails to teach wherein each of one or more of the series of individual command function entries comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced.

However in the same field of voice controlled devices Huang193 teaches wherein each of one or more of the series of individual command function entries comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced (Huang193, paragraph [0024] and figure 2b disclose command function entries that comprise phonetic representation/data 24b and 24c reference generic labels 20b).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the entries in the codeset of Huang to include the default and adaptive phonetic data as taught by Huang193 in order to enhance voice recognition performance through personalization to the specific user (Huang193, paragraphs [0024]).

Huang and Huang193 fail to teach wherein each of one or more of the series of individual command function entries having a common command data comprise a data of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries having the common command data is to be referenced.

In the same field of command control, Comerford teaches wherein each of one or more of the series of individual command function entries having a common command data comprise a data of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries having the common command data is to be referenced (figure 11A, col 16 lines 44-53, multiple available spoke command data may reference same command function.).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use synonym data as taught by Comerford in the system of Huang and Huang193 in order to improve command recognition accuracy (Comerford col 16 lines 44-48).

8. Regarding claim 3, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and further teaches wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data (Huang, paragraphs [0005] and [0030] disclose that the method of the invention is drawn towards implementing remote configuration on various types of hand-held devices including an extended-functionality phone which obviously possess a microphone for receiving voice input and data).

9. Regarding claim 4, the combination of Huang and Huang193 teaches the method of configuration of claim 26 and further teaches wherein the controlling device comprises a memory having stored therein the library of codeset records (Huang, figure 5 and paragraph [0114] disclose a User IR Code DB 544 which is stored on the controlling device and contains a library of codesets, i.e. supplemental codes and sets of learned codes). Regarding claim 7, the combination of Huang and Huang193 teaches the method of configuration of claim 26 and further teaches wherein the library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records (Huang, figure 3 discloses the remote storage of an I R Database/codeset).

10. Regarding claim 5, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and further teaches wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine

(Huang, figure 5 discloses a User Input 510 which paragraph [0068] explain can include speech recognition from software resident on the controlling device/PDA).

11. Regarding claim 6, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and while a speech recognition engine executing on a computing device remote from the controlling device is not explicitly taught, server-based/off-board/remote speech recognition is well known within the art speech processing, especially for portable devices with restricted processing capabilities. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the onboard speech recognition of Huang with the well-known practice of using an off-board/remotely located or server-based speech recognition since the motivation of such a combination would be well known. Specifically, the motivation for using a computing device remote from the controlling device to execute speech recognition is to take advantage of more powerful processing available on larger computers/servers in order to enable more accurate speech recognition without consuming excessing power, computing resources and/or physical space on a hand-held/portable device that would otherwise be required for comparable performance.

12. Regarding claim 8, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and further teaches wherein the codeset is provisioned to the controlling device by being downloaded thereto (at least Huang, paragraphs [0037],

[0039], [0114], [0128], [0152] and [0227] disclose the download of remotely stored codesets to the controlling device).

13. Regarding claim 9, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and further teaches wherein the method comprises receiving at the speech recognition engine voice data for mapping each of the less than all of the individual command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device. (Huang, paragraph [0128] discloses the reassignment of functions/commands to activatable function keys/user input elements based on user's input/selection which paragraph Huang [0068] already teaches can be in the form of speech recognized voice data).

14. Regarding claim 11, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and further teaches using at least location data to identify the codeset record that is caused to be provisioned to the controlling device (Huang, paragraph [0317] discloses the use of a region/location data to present the most likely codeset to the user during the codeset identification and provisioning process to improve usability).

15. Regarding claim 12, the combination of Huang and Huang193 teaches the method of configuration of claim 26 and further teaches wherein location data is additionally utilized in the process of identifying the codeset record that is caused to be

provisioned to the controlling device (Huang paragraph [0317] teaches the use of region/location data in the process of identifying codesets for a target appliance).

16. Regarding claim 13, Huang teaches a system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance wherein the provisioned codeset record comprises protocol and formatting information and a series of individual command function entries each of which comprises command data (in Huang, paragraph [0068] discloses using speech recognition as user input, paragraph [0152] discloses that the appropriate codeset with command and IR format information is selected to be used to control the selected/target device, i.e. the appropriate codeset is provisioned to enable control of the target/selected device via command and paragraphs [0032-0033] disclose that these functions are implemented on software/computer executable on a processing device/PDA);

cause less than all of the individual command codes from within the provisioned codeset record to each be mapped to one or more of a plurality of user input elements of the controlling device wherein a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a

corresponding one or more of the plurality of individual command function entries from with the provisioned codeset record that was mapped thereto to the one of the plurality of user input elements activated (paragraph [0180] discloses mapping functions/entries to icons buttons and paragraph [0184] discloses mapping functions/entries to user input elements/hard buttons and further, figure 18 discloses the mapping of a button to command codes from within the codeset), and cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of a generic label name which corresponds to voice data provided to a speech recognition engine (paragraph [0068] discloses that user input can be speech recognized and used to initiate the action map in figure 18 which shows that user voice input results the transmission of properly formatted IR codes to perform particular command functions entries).

Huang fails to teach that and one or more of the command entries comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced.

However in the same field of voice controlled devices Huang193 teaches wherein one or more of the command entries comprises a phonetic representation of a generic label name by which each of the one or more of the series of individual command function entries is to be referenced (Huang193, paragraph [0024] and figure 2b disclose

command function entries that comprise phonetic representation/data 24b and 24c reference generic labels 20b).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the entries in the codeset of Huang to include the default and adaptive phonetic data as taught by Huang193 in order to enhance voice recognition performance through personalization to the specific user (Huang193, paragraphs [0024]).

Huang and Huang193 fail to teach wherein each of one or more of the series of individual command function entries having a common command data comprise a data of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries having the common command data is to be referenced.

In the same field of command control, Comerford teaches wherein each of one or more of the series of individual command function entries having a common command data comprise a data of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries having the common command data is to be referenced (figure 11A, col 16 lines 44-53, multiple available spoke command data may reference same command function.).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use synonym data as taught by Comerford in the system of Huang and Huang193 in order to improve command recognition accuracy (Comerford col 16 lines 44-48).

17. Regarding claim 14, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions are downloaded to the controlling device in a downloadable app (Huang, figure 3 discloses that the PDA software/applications which comprise instruction to implement the remote configuration process are stored/downloaded to the hand-held device).

18. Regarding claim 15, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 14 and further teaches wherein the controlling device comprises one of a smart phone or a tablet computing device (Huang, paragraphs [0005] and [0030] disclose that the method of the invention is drawn towards mplementing remote configuration on various types of hand-held controlling devices including an extended-functionality/smart phone and a tablet computing device).

19. Regarding claim 17, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and further teaches wherein the controlling device comprises a memory having stored therein a library of codeset records including the provisioned codeset (Huang, figure 5 discloses a User IR Code DB 544 which is a codeset stored/provisioned in memory on the controlling device).

20. Regarding claim 18, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and further teaches wherein a library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records by being downloaded thereto (Huang, figure 3 discloses the remote storage of an IR Database/codeset for downloading to the controlling device).

21. Regarding claim 19, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and while limitation that the processing device comprises one or more computing devices located remotely from the controlling device is not explicitly taught, server-based/off-board/remote speech recognition engines or processing devices are well known within the art speech processing, especially for portable devices with restricted processing capabilities. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the onboard speech recognition engine of Huang with the well-known practice of using off-board/remotely located speech recognition engines or processing devices since the motivation of such a combination would be well known. Specifically, the motivation for using a computing device remote from the controlling device to execute speech recognition is to take advantage of more powerful processing available on larger computers/servers in order to enable more accurate speech recognition without consuming excessing power, computing resources and/or physical space on a

hand-held/portable device that would otherwise be required for comparable performance.

22. Regarding claim 22, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions use voice data received by the speech recognition engine to map each of the less than all of the command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device (Huang, paragraph [0128] discloses the reassignment of functions/commands to activatable function keys/user input elements based on user's input/selection which paragraph [0028] already teaches can be in the form of speech recognized voice data).

23. Regarding claim 24, the combination of Huang and Huang193 teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions additionally use at least location data to identify the codeset that is provisioned to the controlling device (Huang, paragraph [0317] discloses the use of a region/location data to present the most likely codeset to the user during the codeset identification and provisioning process to improve usability).

24. Regarding claim 26, the combination of Huang and Huang193 teaches the method of configuration of claim 1 further teaches receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the

speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codeset records the codeset record that is caused to be provisioned to the controlling device (Huang paragraph [0068] teaches using speech recognition as user input and paragraph [0155] teaches taking/receiving user input indicative of a manufacture/brand to identify a codeset to be provisioned to the controlling device).

Conclusion

25. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DOUGLAS GODBOLD whose telephone number is

(571)270-1451. The examiner can normally be reached on Monday-Thursday 7:00am-4:30pm Friday 7:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. 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.

/DOUGLAS GODBOLD/
Primary Examiner, Art Unit 2658

Notice of References Cited	Application/Control No. 13/298,629	Applicant(s)/Patent Under Reexamination LIM, JONATHAN	
	Examiner DOUGLAS GODBOLD	Art Unit 2658	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,748,361 B1	06-2004	Comerford et al.	704/275
*	B	US-2009/0112605 A1	04-2009	Gupta, Rakesh	704/275
*	C	US-2012/0271639 A1	10-2012	HANSON, GARY R.	704/275
*	D	US-8,793,137 B1	07-2014	Roy et al.	704/275
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	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.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	Art Unit
	ERNEST ESTES	2658

✓	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	09/24/2013	03/31/2014	07/03/2014	10/29/2014					
	1	✓	✓	✓	✓					
	2	✓	✓	-	-					
	3	✓	✓	✓	✓					
	4	✓	✓	✓	✓					
	5	✓	✓	✓	✓					
	6	✓	✓	✓	✓					
	7	✓	✓	✓	✓					
	8	✓	✓	✓	✓					
	9	✓	✓	✓	✓					
	10	✓	-	-	-					
	11	✓	✓	✓	✓					
	12	✓	✓	✓	✓					
	13	✓	✓	✓	✓					
	14	✓	✓	✓	✓					
	15	✓	✓	✓	✓					
	16	✓	✓	-	-					
	17	✓	✓	✓	✓					
	18	✓	✓	✓	✓					
	19	✓	✓	✓	✓					
	20	✓	✓	-	-					
	21	✓	✓	-	-					
	22	✓	✓	✓	✓					
	23	✓	-	-	-					
	24	✓	✓	✓	✓					
	25	✓	✓	-	-					
	26			✓	✓					

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3769	(704/275).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/10/29 13:25
L2	25	l1 and (command near4 synonym)	US-PGPUB; USPAT	OR	ON	2014/10/29 13:25
S1	2	(("20080059193") or ("20090254778")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/10/29 10:09

EAST Search History (Interference)

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10/29/2014 3:35:56 PM
C:\Users\dgodbold\Documents\EAST\Workspaces\13298629.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	Art Unit
	ERNEST ESTES	2658

CPC- SEARCHED		
Symbol	Date	Examiner
G10L21/00	3/31/2014	EE
G10L15/265	3/31/2014	EE
G10L21/00; G10L15/265	7/3/2014	EE

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
704	231, 270, 275	9/24/2013	EE
340	12.22, 12.23, 12.28	9/27/2013	EE
348	734	9/27/2013	EE
704	231, 270, 275	3/31/2014	EE
340	12.22, 12.23, 12.28	3/31/2014	EE
348	734	3/31/2014	EE
704	231, 270, 275	7/3/2014	EE
340	12.22, 12.23, 12.28	7/3/2014	EE
348	734	7/3/2014	EE

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search	9/24/2013	EE
GoogleScholar NPL search	9/24/2013	EE
Keyword text search and keyword w/ date and/or class/subclass	9/24/2013	EE
Consulted primary D. Godbold	9/27/2013	EE
Consulted SPE R. Dorvil on final	3/26/2014	EE
Updated EAST and GoogleScholar searches	3/30/2014	EE
Updated EAST and GoogleScholar searches	7/3/2014	EE
Consulted Primary D. Godbold	7/1/2014	EE

/ERNEST ESTES/ Examiner.Art Unit 2658	

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
update search	10/29/2014	DCG

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

/ERNEST ESTES/ Examiner.Art Unit 2658	

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Courtesy Reminder for
Application Serial No: 13/298,629

Attorney Docket No: 81230.156US1
Customer Number: 34018
Date of Electronic Notification: 11/10/2014

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:

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To view your correspondence online or update your email addresses, please visit us anytime at **https://sportal.uspto.gov/secure/myportal/privatepair.** If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lim	) Examiner:	Estes, Ernest Langston
Application No.:	13/298,629	) Attny Doc.:	81230.156US1
Filing Date:	November 17, 2011	) Art Unit:	2658
Title:	System And Method For Voice Activated Configuration of a Controlling Device	)	

RESPONSE AFTER FINAL

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

Dear Sir:

In response to the Office Action dated November 10, 2014 please consider the Remarks which begin on page 2 of this paper.

The Commissioner is authorized to charge any fee deficiency to deposit account number 50-2428 in the name of Greenberg Traurig, LLP.

Certificate of Electronic Transmission: I hereby certify that this document and its attachments are being electronically transmitted to the U.S. Patent and Trademark Office via EFS-Web on this 8th day of January, 2015.

/Gladys Negron-Munoz/
Gladys Negron-Munoz

CHI 65505541v1

REMARKS

In the application claims 1, 3-9, 11-15, 17-19, 22, 24, and 26 remain pending. Claims 2, 10, 16, 20, 21, 23, and 25 have been cancelled without prejudice.

The pending claims currently stand rejected under 35 U.S.C. § 103 as being rendered obvious by Huang (U.S. Application No. 2009/0254778) in view of Haung '193 (U.S. Application No. 2008/0059193) in further view of Comerford (US Patent No. 6,748,361).

The reconsideration of this rejection is respectfully requested.

It is respectfully submitted that claimed invention addresses the problem that users of a remote control device may use different words to refer to a common command function. For example, a command function for causing a device such as a TV set or STB to tune from a currently selected channel to the immediately previous channel may be referred to as any of the following: "Last," "Go Back," "Quick View," "Back," "Jump," "Recall Channel," "Last Channel," "Return Channel," "Return Previous Channel," "Revue," "Flashback," "Swap," "R-Tune," etc. Accordingly, to cater for such synonyms, the claimed invention causes a remote control to be provisioned with *a codeset record in which one or more of a series of individual command function entries* having a common command data comprise phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced. (See, for example, Fig. 7b illustrating a "codeset record.")

It is has been acknowledged that Huang and Huang '193 do not disclose, teach, or suggest one or more of *a series of individual command function entries of a codeset record* **having** a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be*

referenced.

Considering now Comerford, it is respectfully submitted that Comerford discloses a system in which a data structure, namely a "vocabulary data structure," stores a set of strings and a system in which the list of strings stored in the "vocabulary data structure" is searched by successively comparing a "spoken command" with the strings stored within the "vocabulary data structure." When a match is found between the "spoken command" and a string stored in the "vocabulary data structure," the system of Comerford then uses the index of the matched string within the "vocabulary data structure," i.e., its position in the array, *to find a corresponding command and data element in a command string and data string array, respectively*. (Col. 16, lines 16-43).

From the foregoing it will be appreciated that Comerford does not disclose providing *individual command function entries* within a codeset record, i.e., a data structure that also provides protocol and formatting information as well as command data as claimed, with a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced*. Rather, Comerford discloses the use of a general and all encompassing "vocabulary data structure," which, as a result, requires the further use of the index position of a matched word within the "vocabulary data structure" to locate a correspond command and data element in a command string and data string array, respectively. As will be appreciated, the extra processing that is required by the Comerford described system is eliminated by the claimed invention because within the claimed invention *the individual command function entries within the codeset record* are themselves provided with the phonetic representations of the function synonyms.

Because Comerford does not disclose, teach, or suggest the claimed element of *individual*

command function entries within a codeset record having a phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced (with Comerford, in fact, disclosing a completely different system) and because it has been acknowledged that this claimed element is also missing from Huang and Huang '193, it is respectfully submitted that the combination of Huang, Huang '193, and Comerford cannot be said to present a *prima facie* case of obviousness, e.g., it cannot be said that all of the claimed elements were known in the art for combination thereof. For at least this reason, it is respectfully submitted that the rejection of the claims under 35 U.S.C. § 103 based upon the combination of Huang, Huang '193, and Comerford must be withdrawn.

CONCLUSION

It is respectfully submitted that the application is now in good and proper form for allowance. Such action on the part of the Examiner is respectfully requested.

Respectfully Submitted;

_____/Gary Jarosik/_____

Date: January 8, 2015

By: Gary R. Jarosik, Reg. No. 35,906
Greenberg Traurig, LLP
77 West Wacker Drive, Suite 3100
Chicago, Illinois 60601
(312) 456-8449

Electronic Acknowledgement Receipt

EFS ID:	21153253
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	08-JAN-2015
Filing Date:	17-NOV-2011
Time Stamp:	12:00:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	TransmittalForm_13298629.pdf	147014 5ce9ec999bc245b90d2c51919aa3e8f85590246b	no	1

Warnings:	
Information:	

2		RespAF_13298629.pdf	127463 25b56a6afc70e30d07f432ca8dda9b4b28918d06	yes	4

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response After Final Action	1	1
	Applicant Arguments/Remarks Made in an Amendment	2	4

Warnings:	
Information:	
Total Files Size (in bytes):	274477

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

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

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

Doc Code: TRAN.LET
Document Description: Transmittal Letter

PTO/SB/21 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	5

Application Number	13/298,629
Filing Date	11/17/2011
First Named Inventor	Jonathan Lim
Art Unit	2658
Examiner Name	Godbold, Douglas
Attorney Docket Number	81230.156US1

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☑ Amendment/Reply
  - ☑ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☐ Other Enclosure(s) (please Identify below):

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Greenberg Traurig, LLP - Customer No. 34018		
Signature	/Gary R. Jarosik/		
Printed name	Gary R. Jarosik		
Date	January 8, 2015	Reg. No.	35,906

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Signature	/Gladys Negron-Munoz/		
Typed or printed name	Gladys Negron-Munoz	Date	January 8, 2015

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 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, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 01/22/2015

GREENBERG TRAURIG, LLP (CHI)
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SUITE 3100
CHICAGO, IL 60601-1732

EXAMINER	
GODBOLD, DOUGLAS	

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
01/22/2015	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):

chiipmail@gtlaw.com
escobedot@gtlaw.com
jarosikg@gtlaw.com

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 13/298,629	**Applicant(s)** LIM, JONATHAN	
	Examiner DOUGLAS GODBOLD	**Art Unit** 2658	**AIA (First Inventor to File) Status** No

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

THE REPLY FILED 08 January 2015 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☐ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☐ The period for reply expires _____months from the mailing date of the final rejection.
   b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.
   Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☐ They raise the issue of new matter (see NOTE below);
   c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.
   NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☐ For purposes of appeal, the proposed amendment(s): (a) ☐ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Contiuation Sheet.
13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
14. ☐ Other: _____.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed: .
    Claim(s) objected to: .
    Claim(s) rejected: 1,3-9,11-15,17-19,22,24 and 26.
    Claim(s) withdrawn from consideration: .

/DOUGLAS GODBOLD/
Primary Examiner, Art Unit 2658

Regarding applicant's arguments, see remarks pages 2-4 that the prior art of record does not specifically teach the control to be provisioned with a codeset record in which one or more of a series of individual command function entries having a common command data comprise phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced, the examiner respectfully disagrees. Applicant's arguments seem to be based on an assertion that Comerford requires the use of an index in order to locate command based on the input data. Even if this were the case, there is nothing in the claim that prevents an index as part of the codeset data. Even assuming the claim does require this limitation, the index itself can be considered the codeset record when combined with the other prior art references. In other words, the synonym data entries of Comerford could be directing incorporated into the codeset data of the Huang and Huang '193. Therefore the combination of prior art teaches the limitations of the claims.

DO NOT ENTER: /DG/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lim	) Examiner:	Estes, Ernest Langston
Application No.:	13/298,629	) Attny Doc.:	81230.156US1
Filing Date:	November 17, 2011	) Art Unit:	2658
Title:	System And Method For Voice Activated Configuration of a Controlling Device	)	

RESPONSE AFTER FINAL

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

Dear Sir:

In response to the Office Action dated November 10, 2014 please consider the Remarks which begin on page 2 of this paper.

The Commissioner is authorized to charge any fee deficiency to deposit account number 50-2428 in the name of Greenberg Traurig, LLP.

Certificate of Electronic Transmission: I hereby certify that this document and its attachments are being electronically transmitted to the U.S. Patent and Trademark Office via EFS-Web on this 8th day of January, 2015.

/Gladys Negron-Munoz/
Gladys Negron-Munoz

CHI 65505541v1

Doc Code: AP.PRE.REQ

PTO/AIA/33 (07-09)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PRE-APPEAL BRIEF REQUEST FOR REVIEW

Docket Number (Optional): 81230.156US1

I hereby certify that this correspondence is being facsimile transmitted to the USPTO, EFS-Web transmitted to the USPTO, or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on February 3, 2015

Signature: /Gladys Negron-Munoz/

Typed or printed name: Gladys Negron-Munoz

Application Number	Filed
13/298,629	11/17/2011

First Named Inventor: Jonathan Lim

Art Unit	Examiner
2658	Godbold, Douglas

Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.

This request is being filed with a notice of appeal.

The review is requested for the reason(s) stated on the attached sheet(s).
Note: No more than five (5) pages may be provided.

I am the

- ☐ applicant.
- ☑ attorney or agent of record. Registration number 35,906
- ☐ attorney or agent acting under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34 _____

/Gary R. Jarosik/
Signature

Gary R. Jarosik
Typed or printed name

312-456-8449
Telephone number

February 3, 2015
Date

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

This collection of information is required by 35 U.S.C. 132. 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, 1.14 and 41.6. 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: Mail Stop AF, 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lim	) Examiner:	Godbold, Douglas
Application No.:	13/298,629	) Attny Doc.:	81230.156US1
Filing Date:	November 17, 2011	) Art Unit:	2658
Title:	System And Method For Voice Activated Configuration of a Controlling Device	)	

REQUEST FOR PRE-APPEAL REVIEW

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

Dear Sir:

In connection with this Request For Pre-Appeal Review please consider the Remarks which begin on page 2 of this paper.

A Notice of Appeal is being filed herewith.

The Commissioner is authorized to charge any fee deficiency to deposit account number 50-2428 in the name of Greenberg Traurig, LLP.

Certificate of Electronic Transmission: I hereby certify that this document and its attachments are being electronically transmitted to the U.S. Patent and Trademark Office via EFS-Web on this 3rd day of February, 2015.

/Gladys Negron-Munoz/
Gladys Negron-Munoz

CHI 65571084v1

REMARKS

In the application claims 1, 3-9, 11-15, 17-19, 22, 24, and 26 remain pending. Claims 2, 10, 16, 20, 21, 23, and 25 have been cancelled without prejudice.

The pending claims currently stand rejected under 35 U.S.C. § 103 as being rendered obvious by Huang (U.S. Application No. 2009/0254778) in view of Haung '193 (U.S. Application No. 2008/0059193) in further view of Comerford (US Patent No. 6,748,361).

The reconsideration of this rejection is respectfully requested.

It is respectfully submitted that claimed invention addresses the problem that users of a remote control device may use different words to refer to a common command function. For example, a command function for causing a device such as a TV set or STB to tune from a currently selected channel to the immediately previous channel may be referred to as any of the following: "Last," "Go Back," "Quick View," "Back," "Jump," "Recall Channel," "Last Channel," "Return Channel," "Return Previous Channel," "Revue," "Flashback," "Swap," "R-Tune," etc. Accordingly, to cater for such synonyms, the claimed invention causes a remote control to be provisioned with *a codeset record in which one or more of a series of individual command function entries* having a common command data comprise a phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced. (See, for example, Fig. 7b illustrating a "codeset record.")

It is has been acknowledged that Huang and Huang '193 do not disclose, teach, or suggest one or more of *a series of individual command function entries of a codeset record* having a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced.*

Considering now Comerford, it is respectfully submitted that Comerford discloses a

system in which a first data structure, namely a "vocabulary data structure," stores a set of strings and a system in which the list of strings stored in the "vocabulary data structure" is searched by successively comparing a "spoken command" with the strings stored within the "vocabulary data structure." When a match is found between the "spoken command" and a string stored in the "vocabulary data structure," the system of Comerford then uses the index of the matched string within the "vocabulary data structure," i.e., its position in the array, *to find a corresponding command and data element in a further command string array and data string array, respectively*. (Col. 16, lines 16-43).

From the foregoing it will be appreciated that Comerford does not disclose providing *individual command function entries* within a codeset record, i.e., a data structure that also provides protocol and formatting information as well as command data as claimed, with a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced*. Rather, Comerford discloses the use of a general and all encompassing "vocabulary data structure" having indices which, as a result, requires the further use of an index position of a matched word within the "vocabulary data structure" to locate a correspond command and data element in a further command string and a further data string array, respectively. As will be appreciated, the extra processing that is required by the Comerford described system is eliminated by the claimed invention because within the claimed invention *the individual command function entries within the codeset record* are themselves provided with the phonetic representations of the function synonyms.

Because Comerford discloses a system that uses three separate and distinct elements, namely, a "vocabulary data structure" having indices, a "command string array," and a "data string array," if it is respectfully submitted that Cumerford cannot be said to disclose, teach, or suggest the claimed element of *individual command function entries* within a codeset

record *having a phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced.* Because it has been acknowledged that this claimed element is also missing from Huang and Huang '193, it is respectfully submitted that the combination of Huang, Huang '193, and Comerford cannot be said to present a *prima facie* case of obviousness, e.g., it cannot be said that all of the claimed elements were known in the art for combination thereof. Furthermore, to the extent it has been argued that the synonym data entries of Comerford "could be directing incorporated into the codeset data of Huang and Haung '193" (Advisory Action, emphasis added), it is respectfully submitted that this would require that the functionality of the separate and distinct Comerford data structures be impermissibly changed (See, *KSR International Co. v. Teleflex Inc.*, 550 U.S. 398 (2007) - a rejection under 35 U.S.C. § 103 can be maintained only if it has been demonstrated that all of the claimed elements were expressly or inherently described in the prior art and that one skilled in the art could have combined such described elements by known methods with no change in their respective functions with the combination yielding nothing more than predictable results).

For at least these reasons, it is respectfully submitted that the rejection of the claims under 35 U.S.C. § 103 based upon the combination of Huang, Huang '193, and Comerford must be withdrawn.

Respectfully Submitted;

/Gary Jarosik/

Date: February 3, 2015

By: Gary R. Jarosik, Reg. No. 35,906
Greenberg Traurig, LLP
77 West Wacker Drive, Suite 3100
Chicago, Illinois 60601
(312) 456-8449

Electronic Patent Application Fee Transmittal

Application Number:	13298629
Filing Date:	17-Nov-2011
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Attorney Docket Number:	81230.156US1

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:				
Notice of Appeal	1401	1	800	800
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**800**

Electronic Acknowledgement Receipt	
EFS ID:	21386203
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	03-FEB-2015
Filing Date:	17-NOV-2011
Time Stamp:	15:40:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$800
RAM confirmation Number	12927
Deposit Account	502428
Authorized User	
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	TransmittalForm_13298629.pdf	150046 0549ce2b6149a52dd4628f759b76a57b98231074	no	1
Warnings:					
Information:					
2	Notice of Appeal Filed	NoticeAppeal_13298629.pdf	127682 66457b17eae4e76842b8dd43110f723c3ca5e820	no	1
Warnings:					
Information:					
3	Pre-Brief Conference request	PreBriefReqRev_13298629.pdf	1025938 c4aac4bcee3925defc320e1a16940d0bd2b76334	no	5
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30804 10a9875a0e1f868019a001b1e2acc766815bece8	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1334470		

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

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

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

Doc Code: TRAN.LET
Document Description: Transmittal Letter

PTO/SB/21 (07-09)
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	7

Application Number	13/298,629
Filing Date	11/17/2011
First Named Inventor	Jonathan Lim
Art Unit	2658
Examiner Name	Godbold, Douglas
Attorney Docket Number	81230.156US1

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
- ☑ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☑ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☐ Other Enclosure(s) (please Identify below):

- Pre-Appeal Brief Request for Review

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Greenberg Traurig, LLP - Customer No. 34018		
Signature	/Gary R. Jarosik/		
Printed name	Gary R. Jarosik		
Date	February 3, 2015	Reg. No.	35,906

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	/Gladys Negron-Munoz/		
Typed or printed name	Gladys Negron-Munoz	Date	February 3, 2015

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 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, 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/SB/31 (09-12)
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NOTICE OF APPEAL FROM THE EXAMINER TO THE PATENT TRIAL AND APPEAL BOARD

Docket Number (Optional): 81230.156US1

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on February 3, 2015 - Filed via EFS-Web

Signature /Gladys Negron-Munoz/

Typed or printed name Gladys Negron-Munoz

In re Application of: Jonathan Lim

Application Number	Filed
13/298,629	11/17/2011

For SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE

Art Unit	Examiner
2658	Godbold, Douglas

Applicant hereby **appeals** to the Patent Trial and Appeal Board from the last decision of the examiner.

The fee for this Notice of Appeal is (37 CFR 41.20(b)(1)) $ 800.00

☐ Applicant claims small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by half, and the resulting fee is: $ _____

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☑ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 502428 .

☐ A petition for an extension of time under 37 CFR 1.136(a) (PTO/SB/22) is enclosed.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant/inventor.

☐ assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

☑ attorney or agent of record. Registration number 35906.

☐ attorney or agent acting under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34. _____

/Gary R. Jarosik/
Signature

Gary R. Jarosik
Typed or printed name

312-456-8449
Telephone number

February 3, 2015
Date

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 41.31. 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, 1.14 and 41.6. 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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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 02/23/2015

GREENBERG TRAURIG, LLP (CHI)
77 WEST WACKER DRIVE
SUITE 3100
CHICAGO, IL 60601-1732

EXAMINER	
GODBOLD, DOUGLAS	

ART UNIT	PAPER NUMBER
2658	

MAIL DATE	DELIVERY MODE
02/23/2015	PAPER

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

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

Notice of Panel Decision from Pre-Appeal Brief Review	Application No. 13/298,629	Applicant(s) LIM, JONATHAN
	Examiner RICHEMOND DORVIL	Art Unit 2658

This is in response to the Pre-Appeal Brief Request for Review filed 03 February, 2015.

1. ☐ **Improper Request** – The Request is improper and a conference will not be held for the following reason(s):

☐ The Notice of Appeal has not been filed concurrent with the Pre-Appeal Brief Request.
☐ The request does not include reasons why a review is appropriate.
☐ A proposed amendment is included with the Pre-Appeal Brief request.
☐ Other: .

The time period for filing a response continues to run from the receipt date of the Notice of Appeal or from the mail date of the last Office communication, if no Notice of Appeal has been received.

2. ☒ **Proceed to Board of Patent Appeals and Interferences** – A Pre-Appeal Brief conference has been held. The application remains under appeal because there is at least one actual issue for appeal. Applicant is required to submit an appeal brief in accordance with 37 CFR 41.37. The time period for filing an appeal brief will be reset to be one month from mailing this decision, or the balance of the two-month time period running from the receipt of the notice of appeal, whichever is greater. Further, the time period for filing of the appeal brief is extendible under 37 CFR 1.136 based upon the mail date of this decision or the receipt date of the notice of appeal, as applicable.

☒ The panel has determined the status of the claim(s) is as follows:
Claim(s) allowed: _____.
Claim(s) objected to: _____.
Claim(s) rejected: *ALL PENDING*.
Claim(s) withdrawn from consideration: _____.

3. ☐ **Allowable application** – A conference has been held. The rejection is withdrawn and a Notice of Allowance will be mailed. Prosecution on the merits remains closed. No further action is required by applicant at this time.

4. ☐ **Reopen Prosecution** – A conference has been held. The rejection is withdrawn and a new Office action will be mailed. No further action is required by applicant at this time.

All participants:

(1) *RICHEMOND DORVIL*.	(3) *Douglas Godbold*.
(2) *Pierre-Louis Desir*.	(4)_____.

Richemond Dorvil SPE Art Unit: 2658	/RICHEMOND DORVIL/ Supervisory Patent Examiner, Art Unit 2658	/PIERRE-LOUIS DESIR/ Supervisory Patent Examiner, Art Unit 2659

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lim	) Examiner:	Godbold, Douglas
		)	
Application No.:	13/298,629	) Attny Doc.:	81230.156US1
		)	
Filing Date:	November 17, 2011	) Art Unit:	2658
		)	
Title:	System And Method For Voice Activated Configuration of a Controlling Device	)	

APPEAL BRIEF

FILED VIA EFS-Web

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P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Appellant hereby submits this Appeal Brief in connection with the appeal to the Board of Patent Appeals and Interferences from the final rejection of pending claims 1, 3-9, 11-15, 17-19, 22, 24, and 26.

This Appeal Brief is being filed electronically via EFS-Web.

A Notice of Appeal was previously filed.

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/Gladys Munoz/
Gladys Munoz

CHI 65703701v1

I. Real Party In Interest

The real party in interest is Universal Electronics Inc.

II. Related Appeals And Interferences

Appellant does not believe that there are any further appeals, interferences, or judicial proceedings which may be related to, directly affect or be directly affected by or have a bearing on the Board's decision in the subject appeal.

III. Summary Of The Claimed Subject Matter

In accordance with 37 CFR § 41.37(c)(1)(iii), the following provides a concise explanation of the subject matter defined in the rejected independent claims with reference, by way of example only, to the specification in the record by page and line numbers and drawing elements as applicable:

Independent claim 1 is directed to a method for configuring a controlling device 100/110 to command functional operations of a target appliance 102/104/106/108, the method comprising:

causing a codeset record to be provisioned to the controlling device 706 for use in commanding functional operations of the target appliance 102/104/106/108, the provisioned codeset record 706 comprising protocol and formatting information 752 and a series of individual command function entries 754 wherein each of the series of individual function entries 754 comprises command data 762 and wherein each of one or more of the series of individual command function entries 754 having a common command data 762 comprise a phonetic representation 760 of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries754 having the

common command data 762 is to be referenced (Pg. 11, line 11-Pg. 13, line 16; Pg. 14, line 6-Pg. 16, line 15; Pg. 20, line 9-Pg. 21, line 2);

causing less than all of the individual command function entries 762 from within the provisioned codeset record 706 to each be matched to one or more of a plurality of user input elements of the controlling device 100/110 whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device 100/110 to transmit a command communication by using the protocol and formatting information 752 and the command data 762 of a one or more of the plurality of individual command function entries 754 rom within the provisioned codeset record 706 that was mapped to the one of the plurality of user input element activated (Pg. 14, line 6-Pg. 16, line 15); and

causing the controlling device100/110 to transmit a command communication by using the protocol and formatting information 750 and the command data 762 of a one of the one or more of the plurality of individual command function entries 754 from within the provisioned codeset record 706 having a phonetic representation 760 of a function name synonym which corresponds to voice data provided to a speech recognition engine (Pg. 17, line 1-Pg. 18, line 13).

Independent claim 13 is directed to a system for configuring a controlling device 100/110 to command functional operations of a target appliance 102/104/106/108, the system comprising:

a processing device 200/300 having associated instructions stored on a non-transient readable media 204-206/310 which instructions, when executed by the processing device 200/300, cause a codeset record 706 to be provisioned to the controlling device 100/110 for use in commanding functional operations of the target appliance 102/104/106/108 wherein the provisioned codeset record 706 comprises protocol and formatting information 752 and a series

of individual command function entries 754 each of which comprises command data 762 and one or more of the series of individual command function entries 754 having a common command data 762 comprise a phonetic representation 760 of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries 754 is to be referenced (Pg. 11, line 11-Pg. 13, line 16; Pg. 14, line 6-Pg. 16, line 15; Pg. 20, line 9-Pg. 21, line 2), cause less than all of the individual command codes from within the provisioned codeset record 752 to each be mapped to one or more of a plurality of user input elements of the controlling device 100/110 wherein a subsequent activation of a one of the plurality of user input elements will cause the controlling device 100/110 to transmit a command communication by using the protocol and formatting information 752 and the command data 762 of a corresponding one or more of the plurality of individual command function entries 754 from with the provisioned codeset record 706 that was mapped to the one of the plurality of user input elements activated (Pg. 14, line 6-Pg. 16, line 15), and cause the controlling device 100/110 to transmit a command communication by using the protocol and formatting information 752 and the command data 762 of a one of the one or more of the plurality of individual command function entries 754 from within the provisioned codeset record 706 having a phonetic representation of a function name synonym which corresponds to voice data provided to a speech recognition engine (Pg. 17, line 1-Pg. 18, line 13).

IV. Argument

A) Applicable Law

It is respectfully submitted that a rejection under 35 U.S.C. § 103 can be maintained only if it has been demonstrated that all of the claimed elements were expressly or inherently

described in the prior art and that one skilled in the art could have combined such described elements by known methods with no change in their respective functions with the combination yielding nothing more than predictable results. Furthermore, rejections based upon obviousness cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *KSR v. Teleflex*, 550 U.S. 398 (2007).

B) The Rejection Of Claims 1 and 13 Under 35 U.S.C. § 103

Independent claims 1 and 13 stand rejected under 35 U.S.C. § 103 as being rendered obvious by Huang (U.S. Application No. 2009/0254778) in view of Haung '193 (U.S. Application No. 2008/0059193) in further view of Comerford (US Patent No. 6,748,361).

It is respectfully submitted that claimed invention addresses the problem that users of a remote control device may use different words to refer to a common command function. For example, a command function for causing a device such as a TV set or STB to tune from a currently selected channel to the immediately previous channel may be referred to as any of the following: "Last," "Go Back," "Quick View," "Back," "Jump," "Recall Channel," "Last Channel," "Return Channel," "Return Previous Channel," "Revue," "Flashback," "Swap," "R-Tune," etc. Accordingly, to cater for such synonyms, the claimed invention causes a remote control to be provisioned with *a codeset record in which one or more of a series of individual command function entries having a common command data* comprise a phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced. (See, for example, Fig. 7b illustrating a "codeset record.")

It is has been acknowledged that Huang and Huang '193 do not disclose, teach, or suggest one or more of *a series of individual command function entries of a codeset record* **having** a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced*.

Considering now Comerford, it is respectfully submitted that Comerford discloses a system in which a first data structure, namely a "vocabulary data structure," stores a set of strings and a system in which the list of strings stored in the "vocabulary data structure" is searched by successively comparing a "spoken command" with the strings stored within the "vocabulary data structure." When a match is found between the "spoken command" and a string stored in the "vocabulary data structure," the system of Comerford **then** uses the index of the matched string within the "vocabulary data structure," i.e., its position in the array, *to find a corresponding command and data element in a further command string array and data string array, respectively*. (Col. 16, lines 16-43).

From the foregoing it will be appreciated that Comerford does not disclose, teach, or suggest providing *individual command function entries* within a codeset record, i.e., a data structure that **also** provides protocol and formatting information as well as command data as claimed, with a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced*. Therefore, because it has been acknowledged that this claimed element is also missing from Huang and Huang '193, it is respectfully submitted that the combination of Huang, Huang '193, and Comerford simply cannot be said to present a *prima facie* case of obviousness, e.g., it cannot be said that all of the claimed elements were known in the art for combination

thereof. For at least this reason, it is respectfully submitted that the rejection of the claims under 35 U.S.C. §103 based upon the combination of Huang, Huang '193, and Comerford must be withdrawn.

Recognizing that Comerford does not disclose, teach, or suggest the elements that are also missing from Huang and Huang '193, it was further asserted that the synonym data entries of Comerford "could be directing incorporated into the codeset data of Huang and Haung '193" (Advisory Action, emphasis added). In response, it is respectfully submitted that this assertion cannot be said to support a *prima facie* case of obviousness because this assertion would require that the functionality of the separate and distinct Comerford data structures be impermissibly changed, i.e., it would, at a minimum, require the elimination of the "vocabulary data structure" and corresponding indices *which are integral to the operation of* the Comerford system. Accordingly, because a rejection under 35 U.S.C. § 103 can be maintained only if it has been demonstrated that all of the claimed elements were expressly or inherently described in the prior art and that one skilled in the art could have combined such described elements by known methods with no change in their respective functions with the combination yielding nothing more than predictable results, it is respectfully submitted that a *prima facie* case of obviousness has not been presented and the rejection of the claims under 35 U.S.C. § 103 must be withdrawn.

It is additionally respectfully submitted it has never been explained how or why the synonym data entries of Comerford could be or would *be incorporated into the codeset data* of Huang and Haung '193 as asserted (which Appellant submits they cannot be without materially changing the functionality of the disclosed elements) instead of being used as described in Comerford. For example, while one of skill in the art might be led to use the "vocabulary data structure" having indices as described in Comerford (where the index of a matched string within

the "vocabulary data structure" would then be used *to find a corresponding command and data element in a separate Huang-like code set* in keeping with what is further described in Comerford) to thereby "improve command recognition accuracy" as asserted (OA; pg. 5), it has never been explained how or why one of skill in the art would or could use the teachings of Comerford to instead be led to provide *individual command function entries* within a codeset record with *a phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced* as claimed. Thus, because the rejection of the claims is not supported by any articulated reasoning with some rational underpinning as also required, it is respectfully submitted that a *prima facie* case of obviousness has not been presented and the rejection of the claims under 35 U.S.C. § 103 must be withdrawn.

Respectfully Submitted;

Date: March 19, 2015

By: /Gary R. Jarosik/
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V. Claims Appendix

The following is a clean copy of the claims involved in the appeal:

Listing of Claims:

1. A method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

causing a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance, the provisioned codeset record comprising protocol and formatting information and a series of individual command function entries wherein each of the series of individual function entries comprises command data and wherein each of one or more of the series of individual command function entries having a common command data comprise a phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries having the common command data is to be referenced;

causing less than all of the individual command function entries from within the provisioned codeset record to each be matched to one or more of a plurality of user input elements of the controlling device whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one or more of the plurality of individual command function entries from within the provisioned codeset record that was mapped to the one of the plurality of user input element activated; and

causing the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one of the one or more of the

plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of a function name synonym which corresponds to voice data provided to a speech recognition engine.

3. The method as recited in claim 1, wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data.

4. The method as recited in claim 26, wherein the controlling device comprises a memory having stored therein the library of codeset records.

5. The method as recited in claim 1, wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine.

6. The method as recited in claim 1, wherein the speech recognition engine is executed on a computing device remote from the controlling device.

7. The method as recited in claim 26, wherein the library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records by being downloaded thereto.

8. The method as recited in claim 1, wherein codeset is provisioned to the controlling device by being downloaded thereto.

9. The method as recited in claim 1, wherein the method comprises receiving at the speech recognition engine voice data for mapping each of the less than all of the individual command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device.

11. The method as recited in claim 1, comprising using at least location data to identify the codeset record that is caused to be provisioned to the controlling device.

12. The method as recited in claim 26, wherein location data is additionally utilized in the process of identifying the codeset record that is caused to be provisioned to the controlling device.

13. A system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance wherein the provisioned codeset record comprises protocol and formatting information and a series of individual command function entries each of which comprises command data and one or more of the series of individual command function entries having a common command data comprise a phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced, cause less than all of the individual command codes from within the

provisioned codeset record to each be mapped to one or more of a plurality of user input elements of the controlling device wherein a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a corresponding one or more of the plurality of individual command function entries from with the provisioned codeset record that was mapped to the one of the plurality of user input elements activated, and cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of a function name synonym which corresponds to voice data provided to a speech recognition engine.

14. The system as recited in claim 13, wherein the instructions are downloaded to the controlling device in a downloadable app.

15. The system as recited in claim 14, wherein the controlling device comprises one of a smart phone or a tablet computing device.

17. The system as recited in claim 13, wherein the controlling device comprises a memory having stored therein a library of codeset records including the provisioned codeset record.

18. The system as recited in claim 13, wherein a library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the

library of codeset records by being downloaded thereto.

19. The system as recited in claim 13, wherein the processing device comprises one or more computing devices located remotely from the controlling device.

22. The system as recited in claim 13, wherein the instructions use voice data received by the speech recognition engine to map each of the less than all of the command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device.

24. The system as recited in claim 13, wherein the instructions additionally use at least location data to identify codeset that is provisioned to the controlling device.

26. The method as recited in claim 1, comprising receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codeset records the codeset record that is caused to be provisioned to the controlling device.

VI. Evidence Appendix

No evidence is being submitted herewith.

VII. Related Proceedings Appendix

No decisions are being submitted herewith.

Electronic Acknowledgement Receipt

EFS ID:	21816035
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	19-MAR-2015
Filing Date:	17-NOV-2011
Time Stamp:	10:16:31
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	Transmittal Letter	TransmittalForm_13298629.pdf	147419 bb47b48c84ac40c0d64fc3f55992677ebb0a43af	no	1
Warnings:					
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2	Appeal Brief Filed	AppealBrief_13298629.pdf	147399 cd216e42f4e307ab12cc6d89f095b5a45c22c943	no	15
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TRANSMITTAL FORM

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Filing Date	11/17/2011
First Named Inventor	Jonathan Lim
Art Unit	2658
Examiner Name	Godbold, Douglas
Attorney Docket Number	81230.156US1

ENCLOSURES *(Check all that apply)*

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  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
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- ☑ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
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Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Greenberg Traurig, LLP - Customer No. 34018		
Signature	/Gary R. Jarosik/		
Printed name	Gary R. Jarosik		
Date	March 19, 2015	Reg. No.	35,906

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	Application Number	13298629
	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Godbold, Douglas
	Attorney Docket Number	81230.156US1

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	2	20090292375	A1	2009-11-26	Thompson et al.	

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	1	01/75837	WO	A2	2001-10-11	Xircom Inc.		☐

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	Attorney Docket Number	81230.156US1

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	1	EUROPEAN PATENT OFFICE, Supplementary European Search Report issued on European patent application number 12850322.4, dated March 4, 2015, 6 pages	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	13298629
	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Godbold, Douglas
	Attorney Docket Number	81230.156US1

CERTIFICATION STATEMENT

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

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

OR

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

☒ See attached certification statement.

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

☐ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Gary R. Jarosik/	Date (YYYY-MM-DD)	2015-05-21
Name/Print	Gary R. Jarosik	Registration Number	35906

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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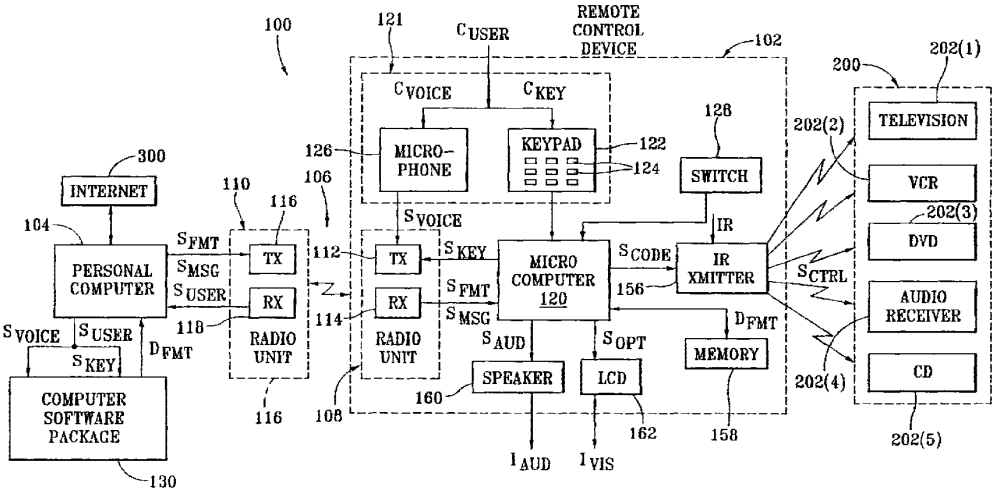
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(54) Title: UNIVERSAL REMOTE CONTROL DEVICE WIRELESSLY LINKED TO PERSONAL COMPUTER



(57) Abstract: A universal remote control system for controlling a consumer electronics system. The remote control system includes a hand-held remote control device for entering a user command, such as a voice command or a keypad command. The remote control system further includes a personal computer, which is wirelessly connected to the hand-held remote control device. In this regard, the user command can be wirelessly transmitted to the personal computer. The personal computer generates formatting data in response to the user command. The formatting data is wirelessly transmitted from the personal computer to the remote control device. The remote control device issues a control signal based on the formatting data. This control signal is wirelessly transmitted to the consumer electronics system for configuration thereof.

WO 01/75837 A2

SPECIFICATION

UNIVERSAL REMOTE CONTROL DEVICE WIRELESSLY LINKED TO PERSONAL COMPUTER

FIELD OF THE INVENTION

The present inventions pertain to the field of wireless electronics systems, including, more specifically, a remote control device for wirelessly controlling electronics devices, such as consumer electronics devices.

BACKGROUND OF THE INVENTION

Remote control devices for controlling consumer electronics devices, such as a television, video cassette recorder, stereo system, etc. have been available to consumers for many years. These remote control devices typically use an infra-red (IR) signal, which is modulated with a pulse code, to control a specific function of the consumer electronics device, such as turning a television on and off, turning the volume of a stereo up and down, playing or recording on a video cassette recorder, etc.

As a result of the differences in brands and types of consumer electronics devices, the format of the pulse code used to modulate the IR signal transmitted from a remote control device differs with the particular consumer electronics device. For example, the bit pattern of the pulse code used to carry out a specific operation, as well as the basic format of the pulse code, such as the bit timing, number of bits per word, width of the pulses, modulating frequency, if any, applied to each pulse, the presence and format of start, lead, or trailer pulses, and the number of correct receptions of a particular command required to effect the specific operation, varies from manufacturer to manufacturer, and may also vary between different model numbers of the same manufacturer. Since most homes contain many consumer electronics devices, often manufactured by different companies, the consumer has been faced with juggling a variety of different remote control devices when interacting with consumer electronics devices.

Universal remote control devices, which are able to control a variety of consumer electronics devices, have recently become available to consumers in response to the proliferation of remote control devices within a single home. A remote control device is commonly called universal if it can send IR signals modulated by the pulse codes pertaining to a wide variety of consumer electronics devices, usually manufactured by different companies. Typical universal remote control devices can be adapted to a specific consumer electronics device by programming the universal remote control device with the remote control device shipped with the specific consumer electronics device. A disadvantage of this "teaching" process is that the consumer must possess a teaching remote control device in order to program the universal remote control device, and the teaching process is often cumbersome and confusing to the consumer, often involving a time consuming process of scanning all device control signals. Additionally, so many pulse code formats exist that it is difficult to create a hand-held universal remote control device capable of "learning" all of the pulse code formats.

Another difficulty with the typical universal remote control device is the large number of function keys that must be located on the remote control device to control the various types of consumer electronics devices. This not only results in a remote control device that is too complex, but may also limits the functions of the consumer electronics devices that can be controlled by the remote control device. For example, lesser used functions of a television, such as color and tint, or of a video cassette recorder, such as the resetting of the counter, are not controlled by a typical universal remote control, absent the use of a television menu system.

Another difficulty with universal remote control devices is that they are dedicated to controlling a given number of consumer electronics devices at the time of manufacture. Thus, the adaptability of the remote control device to consumer electronics devices manufactured in the future becomes problematic, and the remote control devices become obsolete as changes are made to the consumer's electronics system.

More recently, more powerful universal remote control devices, which address the difficulties of typical universal remote control devices, have become

available to consumers. These universal remote control devices have a functional capability similar to that of palm top personal computers, and cost several hundred dollars.

Thus, a more efficient, user-friendly, and reasonably priced remote control system for controlling a variety of consumer electronics devices is needed.

SUMMARY OF THE INVENTION

The present inventions comprise apparatus, systems, and methods for remote controlling an electronics system, e.g., consumer electronics systems.

In accordance with a first aspect of the invention, a remote control device is used to control an electronics device, such as a television, video cassette recorder, digital video disk player, stereo system, etc. This invention, however, should not be limited to consumer electronics devices, and may encompass commercial electronics devices. The remote control device can be dedicated, i.e., its principle function is to control the electronics device, or alternatively, can be non-dedicated, i.e., it has other principle functions, e.g., cellular phones, pagers, etc. The remote control device comprises a user entry interface for receiving a user command from a user. The user entry interface can include an electro-acoustic transducer, such as a microphone, for entering a voice command, and/or a keypad for entering a keypad command. The remote control device further includes a first wireless transmitter, which wirelessly transmits the user command to external processing circuitry, such as a personal computer. The remote control device further includes a wireless receiver, which wirelessly receives formatting data from the external processing circuitry. By way of non-limiting example, the first wireless transmitter and wireless receiver can take the form of an RF transceiver.

The remote control device further includes control circuitry, such as a microcomputer, for generating a code based on the formatting data. By way of non-limiting example, the code can be a pulse code. The remote control device includes a second wireless transmitter, such as an IR transmitter, for transmitting the code to the electronics device. By way of non-limiting example, the code can be a pulse code that is transmitted by modulating a carrier signal, such as an IR signal.

The remote control device can optionally include re-writeable memory for storing formatting data and function key data transmitted from the external processing circuitry, for subsequent use in conjunction with the keypad. The remote control device can also optionally include an electro-optical transducer, such as a liquid crystal display (LCD) and/or an electro-acoustic transducer, such as a speaker, for transmitting user-discernible messaging information to the user.

In accordance with a second aspect of the present inventions, a remote control system is used to control an electronics device. The remote control system comprises a user entry interface for receiving a user command from a user. The user entry interface can include an electro-acoustic transducer, such as a microphone, for entering a voice command, and/or a keypad for entering a keypad command. The remote control system further includes a first wireless transmitter, which wirelessly transmits the user command, and a first wireless receiver, which wirelessly receives the user command signal. The remote control system further includes processing circuitry for generating formatting data in response to the user command. The remote control system includes a second wireless transmitter, which wirelessly transmits the formatting data, and a second wireless receiver, which wirelessly receives the formatting data. The remote control system further includes control circuitry for generating a code based on the formatting data. The remote control system includes a third wireless transmitter for transmitting the code to the consumer electronics device.

By way of non-limiting example, the user entry interface, first wireless transmitter, second wireless receiver, and control circuitry can be associated with a hand-held remote control device, whereas the second wireless transmitter, processing circuitry, and first wireless receiver can be associated with a personal computer.

The processing circuitry can optionally generate function key data in response to the user command signal. The second wireless transmitter can transmit the function key data to the second wireless receiver. The remote control system can include re-writeable memory for storing the formatting data and function key data, for subsequent use in conjunction with the keypad.

IPR2022-01289 Page 00304

In accordance with a third aspect of the present inventions, a method is used to configure one or more electronics devices using a hand-held remote control device (either dedicated or non-dedicated) and a computer. The method includes receiving a user command, such as a voice command or a keypad command, within the remote control device. The user command is wirelessly transmitted from the remote control device to the computer. The computer generates formatting data in response to the user command. The computer can generate specific function commands in response to the user command, in which case, the formatting data can be generated in response to the specific function commands. These specific function commands can be preset or customized by the user. By way of non-limiting example, the formatting data can be generated by configuring the computer with one or more sets of formatting data corresponding to the one or more consumer electronics devices, in which case, the formatting data is selected from these data sets. These data sets can be obtained from a central data base or a customized data base. Optionally, a program schedule can be downloaded into the computer, with the formatting data being based, at least in part, on the program schedule.

The formatting data is wirelessly transmitted from the personal computer to the remote control device. A control signal is generated within the remote control device based on the formatting data, and then wirelessly transmitted from the remote control device to one or more of the electronics devices. By way of non-limiting example, the control signal can be generated by generating a code, such as a pulse code, based on the formatting data, thus generating a carrier signal, and then modulating the carrier signal with the code. By way of further non-limiting example, multiple control signals can be generated and wirelessly transmitted to control a plurality of electronics devices.

Optionally, function key data can be generated within the computer in response to the user command, and wirelessly transmitted to and stored within the remote control device, along with the formatting data, for subsequent use in conjunction with the keypad. Also, messaging data can be generated in the computer and wirelessly transmitted to the remote control device, where it can be transformed into user-discernible information.

IPR2022-01289 Page 00305

In accordance with a fourth aspect of the present inventions, a remote control system is used to control an electronics device. The remote control system includes a voice-activated remote control device (either dedicated or non-dedicated) and a personal computer, which are connected by a wireless voice interface and a wireless data interface. By way of non-limiting example, the wireless voice interface can be simplex, and the wireless data interface can be duplex.

In accordance with a fifth aspect of the present inventions, a personal computer system can be used to control an electronics device. The personal computer system includes a wireless receiver for wirelessly receiving a user command from a remote control device, and a wireless transmitter for wirelessly transmitting formatting data to the remote control device. The personal computer system further includes a personal computer and an associated computer software package, which generates the formatting data in response to the user command. The computer software package can optionally include a voice recognition module for recognizing voice commands. The computer software package can further optionally include a macro command module for generating a plurality of specific function commands in response to the user command. A formatting data module can generate the formatting data in response to the specific function commands. The computer software package can also optionally include a program scheduling list from which the specific function commands can be based, at least in part. The computer software package can optionally include a messaging data module for generating messaging data, which is wirelessly transmitted from the wireless transmitter to the remote control device.

BRIEF DESCRIPTION OF THE DRAWINGS

The various objects, features and advantages of the present invention may be better understood by examining the Detailed Description of the Drawings below, together with the appended figures, wherein:

Fig. 1 is a block diagram of a universal remote control system constructed in accordance with the present inventions;

Fig. 2 is a block diagram of a computer software package implemented in a personal computer of the Fig. 1 universal remote control system; and

Fig. 3 is a flow diagram of the operation of the Fig. 1 universal remote control system.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Fig. 1, a universal remote control system 100 constructed in accordance with the present inventions is described. The universal remote control system 100 can be operated by a user to configure a consumer electronics system 200, which includes different types of consumer electronics devices 202. In the illustrated embodiment, the different consumer electronics devices 202 are represented by a television 202(1), video cassette recorder (VCR) 202(2), digital video disk (DVD) player 202(3), audio receiver 202(4), and compact disk (CD) player 202(5). Not only do the consumer electronics device 202 differ in type, but may also differ in brand, e.g., Philips, Mitsubishi, Toshiba, etc. It should be noted that the consumer electronics system 200 is not limited to the illustrated entertainment-type devices, but may include other types of consumer electronics devices, such as an air conditioning unit, lighting system, alarm and security system, garage door opener, etc. As will be described in further detail below, a user can employ the universal remote control system 100 to easily and efficiently configure the consumer electronics system 200, i.e., control the functionality of each of the consumer electronics devices 202 that the user desires to operate.

The universal remote control system 100 includes a hand-held remote control device 102, which not only provides a convenient interface through which the consumer can configure the consumer electronics system 200 via one or more user commands, but also provides the platform from which control signals are transmitted to the consumer electronics system 200. The user can also program the remote control device 102 itself. The universal remote control system 100 further includes a personal computer 104, which provides the computing and storage capability necessary to interpret the user commands, and the data necessary to format the control signals corresponding to the user commands, as well as the data necessary to

program the remote control device 102, if desired. Use of a personal computer within the universal remote control system 100 is particularly advantageous in that personal computers are fast becoming, if not already, a staple item within households, and thus, a substantial cost of the universal remote control system 100 will be absorbed by a pre-existing component.

To provide flexibility in setup and to minimize the use of cables and wires, the remote control device 102 and personal computer 104 communicate with each other over a two-way wireless interface 106. Preferably, the wireless interface 106 operates within the radio frequency (RF) spectrum, obviating the need to provide a direct line of sight between the personal computer 104 and remote control device 102, which may otherwise be required when operating in the IR spectrum. Thus, the personal computer 104 and remote control device 102 can be located in different rooms of the user's home. In the illustrated embodiment, the wireless interface 106 provides full duplex packet-switched data and simplex circuit-switched communications between the remote control device 102 and personal computer 104.

The wireless interface 106 is implemented through the use of first and second radio units 108 and 110 connected to, or located within, the remote control device 102 and personal computer 104, respectively. The first radio unit 108 includes a transmitter 112 and a receiver 114, which may be implemented as a transceiver. Likewise, the second radio unit 110 includes a transmitter 116 and a receiver 118, which may be implemented as a transceiver. In the illustrated embodiment, the first and second radio units 110 and 112 and associated computer software operate in accordance with the Bluetooth™ radio interface protocol, which has recently been developed to address the need for cost-efficient, short-range radio communications among portable devices. The Bluetooth™ radio interface protocol operates in the Industrial-Scientific-Medical (ISM) band (i.e., between 2.4 and 2.5 GHz.). To minimize the adverse effects of interference from other components, the Bluetooth™ radio interface protocol utilizes frequency-hopping and spread spectrum techniques, as well as forward error correction (FEC) techniques.

The remote control device 102 can be advantageously employed by a user to configure the consumer electronics system 200 by controlling the functionality (such as volume, channel, record, play, on or off, etc.) of one or more of the consumer electronics device or devices 202. The remote control device 102 includes control circuitry, and in particular, a microcomputer 120, which, as will be described in further detail below, acts as the central control unit of the remote control device 102, facilitating in the generation of, and transmission and reception of, various types of data to and from the remote control device 102. The remote control device 102 further includes a user interface 121, which allows user commands C_{USER} to be input into the universal remote control system 100. The user commands C_{USER} can be divided into two types: configuration-type user commands, which, subsequent to processing by the personal computer 104, effect immediate configuration of the consumer electronics system 200; and keypad programming-type user commands, which, subsequent to processing by the personal computer 104, effect programming of the remote control device 102 itself.

In this regard, the user interface 200 includes a keypad 122 with function keys 124, and an electro-acoustic transducer 126, and in particular, a microphone. The keypad 122 provides the means for a user to input a user command C_{USER} into the universal remote control system 100 in the form of a keypad command C_{KEY}. The issuance of a keypad command C_{KEY} (e.g., "VOLUME DOWN", "CHANNEL UP", "ONE", "TWO", etc.) immediately configures the consumer electronics system 200. In this regard, the keypad command C_{KEY} is always a configuration-type user command C_{USER}. As will be described in further detail below, configuration of the consumer electronics system 200 via the keypad 122 is effected after the keypad commands C_{KEY} are processed by the personal computer 104, or if the keypad 122 has been previously programmed, without further processing of the keypad commands C_{KEY} by the personal computer 104.

The keypad 122 is similar to that which may be found on a typical remote control device, and includes function keys 124, such as numerical keys, volume-up and -down keys, channel-up and -down keys, menu key, scroll-left, -right, -up, and -down keys, etc. The function keys 124 of the keypad 122 are coupled to the

microcomputer 120, which generates a keypad command signal S_{KEY} in response to a keypad command C_{KEY}, i.e., depression of one or more keys on the keypad 122 by the user. In addition to indicating the particular function key 124 that was depressed, the keypad command signal S_{KEY} will also indicate the particular device control mode which the remote control device 102 is in, as designated by a switch 128, which may, e.g., be switchable between a television mode, VCR mode, etc. An output of the microcomputer 120 is coupled to the transmitter 112 of the first radio unit 108 to provide the keypad command signal S_{KEY} thereto.

The microphone 126 provides the means for a user to input an audio voice command C_{VOICE} into the universal remote control system 100. The issuance of an audio voice commands C_{VOICE} can either immediately configure the consumer electronics system 200 (e.g., "WATCH DVD", "RECORD FRASIER ON THURSDAY", or "LISTEN TO CD") or program the keypad 122 of the remote control device 102 (e.g., "PROGRAM KEYPAD FOR TELEVISION" or "PROGRAM KEY 'A' FOR COLOR CONTROL"). In this regard, the keypad command C_{KEY} can be a configuration-type user command C_{USER} or a keypad programming-type user command C_{USER}. The former immediately effects configuration of the consumer electronics system 200, whereas the latter effects configuration of the consumer electronics system 200 only after the appropriate function key or keys 124 of the keypad 122 are depressed.

The microphone 126 generates an electrical voice command signal S_{VOICE} in response to the audio voice command C_{VOICE}. The output of the microphone 126 is coupled to the transmitter 112 of the first radio unit 108 to provide the voice command signal S_{VOICE} thereto. It should be noted that the voice commands C_{VOICE} and keypad commands C_{KEY} are not functionally exclusive of each other, and thus, both can effect the same configuration of the consumer electronics system 200. For example, the voice command C_{VOICE} "TURN ON TELEVISION", and the keypad command C_{KEY} "POWER ON" (while the remote control device 120 is in the television mode), will result in the same functional configuration of the television 202(1). That is, both commands will turn on the television 202(1).

The transmitter 112 of the first radio unit 108 wirelessly transmits the voice and keypad command signals S_{VOICE} and S_{KEY} over the wireless interface 106 to the

personal computer 104. Generically speaking, the voice and keypad command signals S_{VOICE} and S_{KEY} can be considered a user command signal S_{USER}. The personal computer 104 is coupled to the receiver 118 of the second radio unit 110 to receive the user command signals S_{USER}. The personal computer 104 utilizes a specialized software package 130 to process the user command signals S_{USER} and generate a formatting data signal S_{FMT} in response thereto. As will be described in further detail below, the formatting data D_{FMT} represents data indicating the characteristics of one or more pulse codes that can be transmitted by the remote control device 102 to configure the consumer electronics system 200. Such characteristics of formatting data can include, e.g., bit pattern, pulse width, frequency, number of bits per word, modulating frequency, if any, applied to each pulse, the present of, length of, and shape of start, lead or trailer pulses and the number of correction receptions of a particular command need to effect the functionality of the selected consumer electronics device or devices.

As will be described in further detail below, the formatting data D_{FMT} can be employed by the remote control device 102 to immediately format and generate pulse codes to configure the consumer electronics system 200, or can be used by the remote control device 102 to program one or more function keys 124 on the keypad 122.

Referring further to Fig. 2, the computer software package 130 includes a macro command module 132, which, based on the presence of a configuration-type user command signal S_{USER}, generates all of the specific function commands C_{SPEC} necessary to configure the entire consumer electronics system 200. Specific function commands C_{SPEC} are commands that control a specific function of a specific consumer electronics device. For example, if the user command signal S_{USER} originates from a voice command C_{VOICE} "LISTEN TO CD", the macro command module 132 may, e.g., determine that the following specific function commands C_{SPEC} are necessary for the user to listen to a CD previously inserted into the CD player 202(5): "turn on audio receiver 202(4)"; "turn on CD player 202(5)"; and "configure the audio input of the audio receiver 202(4) to receive the audio from the CD player 202(5)".

IPR2022-01289 Page 00311

The macro command module 132 also, based on the presence of a keypad programming-type user signal S_{USER}, generates the specific function commands C_{SPEC} to be programmed into the keypad 122 of the remote control device 102. For example, if the user command signal S_{USER} originates from a voice command C_{VOICE} "PROGRAM KEYPAD FOR TELEVISION", the macro command module 132 generates all of the specific function commands C_{SPEC} that can be programmed into the keypad 122 of the remote control device 102. If the user command signal S_{USER} originates from a voice command C_{VOICE} "PROGRAM KEY 'A' TO INCREASE TELEVISION COLOR", the macro command module 132 generates all of the specific function commands C_{SPEC} that controls the color displayed on the television 202(1).

The macro command module 132 utilizes a voice recognition module 134 to recognize voice command signals S_{VOICE}. Standard, speech recognition software packages are commercially available. The macro command module 132 also utilizes a command look-up list 136 to generate the proper specific function commands C_{SPEC} in response to a user command signal S_{USER}. The command look-up list 136 contains all of the possible user commands C_{USER} (both voice and keypad) and the specific function commands C_{SPEC} required to implement the corresponding user command C_{USER}. The user commands C_{USER} and specific function commands C_{SPEC} within the command look-up list 136 are preset. The computer software package 130, however, includes a command customization module 138, which allows the user to customize the command look-up list 136.

Specifically, the user can alter any of one or more single function commands C_{SPEC} corresponding to the user commands C_{USER}. For example, if the voice command C_{VOICE} "WATCH TELEVISION" is preset to correspond to the specific function command C_{SPEC} to turn on the television 202(1), without further customization, such a command will allow the user to watch a television program, with the audio portion of the television program being transmitted directly from the speaker of the television 202(1). The user can, however, customize the voice command C_{VOICE} "WATCH TELEVISION" to correspond to the specific function commands C_{SPEC}: "turn on the television 202(1)", "turn on the audio receiver 202(4)", and "change the audio input of the audio receiver 202(4) to receive the audio from the television 202(1)". In this

case, such a command will allow the user to watch a television program, with the audio portion of the television program being transmitted directly from the speakers of the television 202(1) and from the speakers connected to the audio receiver 202(4). The user can also alter any user command C_{USER} to which the one or more specific function commands C_{SPEC} correspond. For example, the voice command C_{VOICE} "WATCH TELEVISION" can be shortened to "WATCH TV".

Optionally, the user can add user commands C_{USER} and corresponding specific function commands C_{SPEC}. For example, if not already preset, the user can add the user command C_{USER} "RECORD DVD" and the corresponding specific function commands: "turn on DVD player 202(3)", "turn on VCR 202(2)", "change the input of the VCR 202(2) to receive the output of the DVD player 202(3)", "play the DVD player 202(3)", and "begin recording on the VCR 202(2)".

In association with the macro command module 132, the computer software package 130 includes a program scheduling list 140, which provides a periodic (weekly, daily, etc.) schedule of television (cable/satellite/broadcast) programs and/or radio programs. The personal computer 104 is connected to the internet 300 to allow convenient downloading and updating of the program scheduling list 140. The macro command module 132 can, in response to a voice command signal S_{VOICE}, access the program scheduling list 140 to obtain programming data DPROG (e.g., date, time, channel or station) concerning a television or a radio program to be recorded. For example, if the voice command C_{VOICE} is "RECORD FRASIER" the macro command module 132 may, e.g., determine that the following specific function commands C_{SPEC} are necessary to allow the user to record "FRASIER": "turn on VCR 202(2)"; "access menu"; "access recording programming portion of menu" (or alternatively, VCR-PLUS); "input appropriate channel, time, and day", (or in the case of VCR-PLUS, a single code) as indicated in the program scheduling list 140; and "turn-off VCR 202(2)".

The computer software package 130 further includes a formatting data module 142, which, in the case of a configuration-type user command signal S_{USER}, generates formatting data D_{FMT} necessary for the control signals transmitted from the remote control device 102 to effect the specific function commands C_{SPEC} determined

IPR2022-01289 Page 00313

by the macro command module 132. For example, if the specific function commands C_{SPEC} determined by the macro command module 132 are "turn on audio receiver 202(4)"; "turn on CD player 202(5)"; and "configure the audio input of the audio receiver 202(4) to receive the audio from the CD player 202(5)", the formatting data module 142 generates formatting data corresponding to each of these specific function commands C_{SPEC}. In the case of a programming-type user command signal S_{USER}, the formatting data module 142 generates formatting data D_{FMT} corresponding to one or more function keys 124.

The formatting data module 142 generates the proper formatting data D_{FMT} by selecting from a format look-up list 144, which includes all of the specific function commands C_{SPEC} necessary to control the consumer electronics devices 202 within the consumer electronics system 200 and the corresponding formatting data D_{FMT}. The specific function commands C_{SPEC} and corresponding formatting data D_{FMT} within the format look-up list 144 are arranged in data sets, with each data set corresponding to a specific consumer electronics device 202 within the consumer electronics system 200, and containing all of the information necessary to configure the specific consumer electronics device 202. Thus, the formatting data module 142 can look up the specific function commands C_{SPEC} determined by the macro command module 132 within the format look-up list 144 and select the corresponding formatting data D_{FMT}.

For example, the voice command C_{VOICE} "WATCH TELEVISION" (which is a configuration-type user command C_{USER}) invokes the specific function command C_{SPEC} "turn on the television 202(1)", in which case, the formatting data module 142 goes to the data set corresponding to the television 202(1), looks up the specific function command C_{SPEC} for turning on the television 202(1), and selects the formatting data D_{FMT} corresponding to that specific function command C_{SPEC}. The voice command C_{VOICE} "PROGRAM KEYPAD FOR TELEVISION" (which is a keypad programming-type user command C_{USER}) invokes all of the specific function commands C_{SPEC} for the television 202(1), in which case, the formatting data module 142 selects the entire set of formatting data D_{FMT} corresponding to the television 202(1). The voice command C_{VOICE} "PROGRAM KEY 'A' TO INCREASE TELEVISION COLOR" (which is

a keypad programming-type user command C_{USER}) invokes the specific function command C_{SPEC} "increase television color," in which case, the formatting data module 142 looks up the specific function command C_{SPEC} for increasing the color on the television 202(1), and selects the formatting data D_{FMT} corresponding to that specific function command C_{SPEC}.

The computer software package 130 further includes a formatting data compiling module 146, which accesses a central database 148 to compile the format look-up list 144. The central database 148 is supplied with the computer software package 130 and includes an extensive list of the specific function commands and corresponding formatting data necessary to control most, if not all, types and brands of consumer electronics devices. Alternatively, or optionally, the central database 148 can be supplied on a medium (such as a computer CD or a website through the internet 300) separate from the computer software package 130, allowing the formatting data compiling module 146 access to the specific function commands and corresponding formatting data necessary to control consumer electronics devices manufactured in the future.

The formatting data compiling module 146 selects the data sets (i.e., the specific function commands C_{SPEC} and corresponding formatting data D_{FMT}) corresponding to the consumer electronics devices 202 within the user's consumer electronics system 200, and stores the selected data sets within the format look-up list 144. To facilitate selection of the pertinent data sets, the user manually inputs the brand and model numbers of the consumer electronics devices 202 into the formatting data compiling module 146. Alternatively, or optionally, a custom database 150 specific to one or more of the consumer electronics devices 202 within the consumer electronics system 200 can be supplied with these consumer electronics devices 202 in the form of a computer CD, or offered on a website owned by the manufacturer of these consumer electronics devices 202. In this manner, the user is provided with a more cost-efficient and easier means of compiling the formatting look-up list 144.

Prior to outputting the formatting data D_{FMT}, the formatting data module 142 flags the formatting data D_{FMT} to indicate the purpose of the formatting data D_{FMT}, i.e.,

IPR2022-01289 Page 00315

whether the formatting data D_{FMT} is to be used to immediately configure the consumer electronics system 200, or whether the formatting data D_{FMT} is to be used to program the keypad 122 of the remote control device 102. This can be accomplished by providing appending function key data indicating the function keys 122 to which the formatting data D_{FMT} corresponds. The absence of key data from the formatting data D_{FMT} indicates that the formatting data D_{FMT} is to be used to configure the consumer electronics system 200.

Referring specifically to Fig. 1, once the proper formatting data D_{FMT} is generated by the formatting data module 142, the personal computer 104 generates the formatting data signal S_{FMT}, which is communicated to the remote control device 102. The personal computer 104 is coupled to the transmitter 116 of the second radio unit 110 to wirelessly transmit the formatting data signal S_{FMT} over the wireless interface 106 to the remote control device 102. The microcomputer 120 of the remote control device 102 is coupled to the receiver 114 of the first radio unit 108 to receive the formatting data signal S_{FMT}.

The microcomputer 120 determines whether the formatting data contained in the formatting data signal S_{FMT} is to be used to immediately configure the consumer electronics system 200 (i.e., whether the formatting data signal S_{FMT} was generated in response to a configuration-type user command C_{USER}) or to program the keypad 122 of the remote control device 102 (i.e., whether the formatting data signal S_{FMT} was generated in response to a keypad programming-type user command C_{USER}). Specifically, if it is determined that the formatting data signal S_{FMT} does not carry any function key data, the microcomputer 120 uses the formatting data D_{FMT} to configure the consumer electronics system 200. In contrast, if it is determined that the formatting data signal S_{FMT} does carry function key data, the microcomputer 120 uses the formatting data D_{FMT} to program the keypad 122 of the remote control device 102.

In the case where the formatting data D_{FMT} is to be used to configure the consumer electronics system 200, the microcomputer 120 generates a code, and in particular, one or more pulse codes S_{CODE}, in accordance with the formatting data D_{FMT} carried by the formatting data signal S_{FMT}. The remote control device 102

includes an IR transmitter 156, which modulates an IR carrier signal with the pulse code S_{CODE} to produce a control signal S_{CTRL}. In alternative embodiments, an RF transmitter can be used to provide a broader beamwidth to the control signal S_{CTRL}. The control signal S_{CTRL} is wirelessly transmitted to the consumer electronics system 200, thereby configuring the specific consumer electronics devices 202 in accordance with the user command C_{USER}.

In the case where the formatting data D_{FMT} is to be used to configure the consumer electronics system 200, the microcomputer 120 stores the formatting data D_{FMT}, along with the corresponding function key data, in a re-writeable memory 158, such as an EEPROM, which is coupled to the microcomputer 120. After the formatting data D_{FMT} and corresponding function key data have been stored in the EEPROM 158, the microcomputer 120 can generate a pulse code S_{CODE} in response to a keypad command signal S_{KEY}, without further processing by the personal computer 104.

The universal remote control system 100 provides configuration status information to the user. Referring further to Fig. 2, the computer software package 130 within the personal computer 104 includes a messaging data module 152, which generates messaging data D_{MSG} in response to a user command signal S_{USER} transmitted from the remote control device 102, and specifically in response to the specific function commands C_{SPEC} generated by the macro command module 132. The messaging data D_{MSG} indicates the status of the particular function of the consumer electronics system 200 that is currently being controlled, such as channel, power on or power off, volume, etc.

The messaging data module 152 generates the proper messaging data D_{MSG} by selecting from a message look-up list 154, which includes all of the specific function commands C_{SPEC} necessary to control the consumer electronics devices 202 within the consumer electronics system 200 and the corresponding messaging data D_{MSG}. The specific function commands C_{SPEC} and corresponding messaging data D_{MSG} within the format look-up list 144 are arranged in data sets, with each data set corresponding to a specific consumer electronics device 202 within the consumer electronics system 200, and containing all of the information necessary to provide

the status for the specific consumer electronics device 202. Thus, the messaging data module 152 can look up the specific function commands C_{SPEC} determined by the macro command module 132 within the message look-up list 154 and select the corresponding messaging data D_{MSG}.

Referring specifically to Fig. 1, once the messaging data D_{MSG} is generated by the messaging data module 152, the personal computer 104 generates a messaging data signal S_{MSG}, which is communicated to the remote control device 102 and received by the microcomputer 120. The remote control device 102 includes an audio transducer, such as a speaker 160, and an electro-optical transducer, such as a liquid crystal display (LCD) 162, which are both coupled to outputs of the microcomputer 120. In response to the messaging data signal S_{MSG}, the microcomputer 120 generates an audio signal S_{AUD} and an optical signal S_{OPT}, which are transmitted to the respective speaker 160 and LCD 162 to provide the consumer with user-discernible auditory information I_{AUD} and user-discernible visual information I_{VIS} regarding the particular function of the consumer electronics system 200 that is currently being controlled. For example, the auditory and visual information can be "KEYPAD PROGRAMMED FOR TELEVISION", or "VOLUME ON TELEVISION INCREASING", or "CD PLAYING."

Referring to Figs. 2 and 3, configuration and operation of the universal remote control system 100 will be generally described with respect to steps 170-190. Prior to operation, the universal remote control system 100 is configured to operate with the user's consumer electronics system 200. The personal computer 104, and in particular, the computer software package 130, is configured with the sets of formatting data corresponding to each consumer electronics device 202 within the consumer electronics system 200 (step 170). This can be accomplished by running the formatting data compiling module 146 to load the format look-up list 144 with specific function commands C_{SPEC} and corresponding formatting data D_{FMT} stored in the central database 148 (either located within the computer software package 130 itself or on a website) in response to user-entered information, i.e., model and brand information of the individual consumer electronics devices 202. Optionally, the formatting data compiling module 146 can automatically load the format look-up list

144 with specific function commands C_{SPEC} and corresponding formatting data D_{FMT} stored in the custom database 150 found in software sold with the particular consumer electronics devices 202, or found on the website owned by the manufacturer.

Next, if desired, the user commands C_{USER} recognized by the universal remote control system 100 and/or the specific configuration of the consumer electronics system 200 in response to the user commands C_{USER} is customized (step 171). Specifically, the user commands C_{USER} recognized by the macro command module 132 and the specific function commands C_{SPEC} generated in response to the user commands C_{USER} can be customized by running the command customization module 138 to alter or add to the user commands C_{USER} and corresponding specific function commands C_{SPEC} stored within the command look-up list 136.

Next, if desired, the personal computer 104 can be configured with current television and radio programming information (step 172). Specifically, the program scheduling list 140 can be updated by downloading programming information over the internet 300.

Once the computer software program 130 is fully installed, the remote control system 100 can be operated. Referring to Figs. 1 and 3, the user enters a user command C_{USER} into the remote control device 102 (step 173). Specifically, the user enters a user command C_{USER} into the user entry interface 121 of the remote control device 102. The user can enter a keypad command C_{KEY} via the keypad 122 of the remote control device 102, or alternatively, enter a voice command C_{VOICE} via the microphone 126 of the remote control device 102. As discussed above, the keypad command C_{KEY} is a configuration-type user command C_{USER}, whereas the voice command C_{VOICE} can be either a configuration-type or a programming-type user command C_{USER}.

The remote control device 102, and specifically, the microcomputer 120, determines if the user command C_{USER} is a keypad command C_{KEY} (step 174). If so, the remote control device 102 determines if the function key 122 that was depressed has been previously programmed (step 175). Specifically, the microcomputer 120 determines if the formatting data D_{FMT} corresponding to the depressed function key

124 is stored in the EEPROM 158, indicating that the depressed function key 124 has been programmed. If the depressed function key 122 has been previously programmed, the remote control device 102 generates a control signal S_{CTRL} based on the formatting data D_{FMT} (step 176). Specifically, the microcomputer 120 obtains from the EEPROM 158, the formatting data D_{FMT} corresponding to the depressed function key 122, and generates a pulse code S_{CODE} in accordance with the obtained formatting data D_{FMT}. An IR carrier signal is then modulated with the pulse code S_{CODE} to generate the control signal S_{CTRL}. Next, the control signal S_{CTRL} is wirelessly transmitted to the consumer electronics system 200 to configure the specific consumer electronics device or devices 202 in accordance with the user command C_{USER} (step 177).

The remote control device 102 generates status information to the user, i.e., provides the user with user-discernible auditory information I_{AUD} and user-discernible visual information I_{VIS} regarding the particular function of the consumer electronics system 200 that is currently being controlled (step 178). Specifically, the microcomputer 120 generates an audio signal S_{AUD} and an optical signal S_{OPT}, which are transmitted to the respective speaker 160 and LCD 162.

If the user command C_{USER} is not a keypad command C_{KEY}, or if the user command C_{USER} is a keypad command C_{KEY}, but the depressed function key 122 has not been previously programmed (i.e., formatting data D_{FMT} corresponding to the depressed function key 124 is not stored in the EEPROM 158), the remote control device 102 generates a user command signal S_{USER} (step 179). Specifically, if the user command C_{USER} is a voice command C_{VOICE}, the microphone 126 generates a voice command signal S_{VOICE}. If the user command C_{USER} is a keypad command C_{KEY}, the microcomputer 120 generates a keypad command signal S_{KEY}. The user command signal S_{USER} is then wirelessly transmitted to the personal computer 104 over the wireless interface 106 for further processing by the personal computer 104 (step 180). That is, the user command signal S_{USER} is transmitted by the transmitter 112 of the first radio unit 108, and received by the receiver 118 of the second radio unit 110.

The personal computer 104 generates formatting data D_{FMT} in response to the user command signal S_{USER} (step 181). Specifically, and with further reference to Fig. 2, the macro command module 132 generates specific function commands C_{SPEC} based on the user command C_{USER} by finding the user command C_{USER} indicated by the user command signal S_{USER} in the command look-up list 136 and obtaining the specific function commands C_{SPEC} corresponding to the user command C_{USER}. If the user command signal S_{USER} is a voice command signal S_{VOICE}, the macro command module 132 employs the voice recognition module 134 to recognize the voice command signal S_{VOICE}. Additionally, if the voice command signal S_{VOICE} requires recording of a television or radio program, the macro command module 132 accesses the program scheduling list 140 to determine the data, time and channel or station of the program, and generates additional specific function commands C_{SPEC} in response to this scheduling information.

The personal computer 104, and in particular, the macro command module 132, determines if the user command signal S_{USER} is of a configuration-type or a keypad programming-type (step 182). If the user command signal S_{USER} is of a keypad programming-type, the personal computer 104, and in particular, the macro command module 132, generates function key data indicating the function keys 122 to which the formatting data D_{FMT} corresponds (step 183).

The personal computer 104 also generates messaging data D_{MSG} in response to the user command signal S_{USER} (step 184). Specifically, the messaging data module 152 generates messaging data D_{MSG} based on the specific user commands C_{SPEC} generated by the macro command module 132 by finding the specific function commands C_{SPEC} in the message look-up list 154 and obtaining the messaging data D_{MSG} corresponding to the specific function commands C_{SPEC}.

The personal computer 104 generates a formatting data signal S_{FMT} from the formatting data D_{FMT} and, if generated, from the function key data (step 185). The personal computer 104 generates a messaging data signal S_{MSG} from the messaging data D_{MSG} (step 186). The formatting data signal S_{FMT} is then wirelessly transmitted over the wireless interface 106 to the remote control device 102 (step 187). Specifically, the transmitter 116 of the second radio unit 110 transmits the formatting

data signal S_{FMT} to the receiver 114 of the first radio unit 108. The messaging data signal S_{MSG} is then wirelessly transmitted over the wireless interface 106 to the remote control device 102 (step 188). Specifically, the transmitter 116 of the second radio unit 110 transmits the messaging data signal S_{MSG} to the receiver 114 of the first radio unit 108.

The remote control device 102, and in particular, the microcomputer 120, determines if the user command C_{USER} is of a keypad programming-type by determining if the formatting data signal S_{FMT} carries function key data (step 189). If so, THE remote control device 102 programs the keypad 122 (step 190). Specifically, the microcomputer 120 obtains the formatting data D_{FMT} and corresponding function key data from the formatting data signal S_{FMT}, and stores it in the EEPROM 158 for subsequent use (step 190). If the user command C_{USER} is not of a keypad programming-type, i.e., the formatting data signal S_{FMT} does not carry function key data, the remote control device 102 generates a control signal S_{CTRL} based on the formatting data D_{FMT} (step 176). Specifically, the microcomputer 120 generates a pulse code S_{CODE} in accordance with the formatting data D_{FMT}. An IR carrier signal is then modulated with the pulse code S_{CODE} to generate the control signal S_{CTRL}. Next, the control signal S_{CTRL} is wirelessly transmitted to the consumer electronics system 200 to configure the specific consumer electronics device or devices 202 in accordance with the user command C_{USER} (step 177).

The remote control device 102 provides the user with user-discernible auditory information I_{AUD} and user-discernible visual information I_{VIS} (step 178). Specifically, the microcomputer 120 obtains the messaging data D_{MSG} from the messaging data signal S_{MSG}, and generates an audio signal S_{AUD} and an optical signal S_{OPT} based on the messaging data, which are transmitted to the respective speaker 160 and LCD 162. If the user command C_{USER} is of a configuration-type, the user-discernible information indicates the particular function of the consumer electronics system 200 that is currently being controlled. If the user command C_{USER} is of a keypad programming-type, the user-discernible information indicates the particular function key 124, or possibly, the entire keypad 122, has been programmed.

Thus, an improved apparatus and method for remotely controlling a consumer electronics system is described. While embodiments and applications of this invention have been shown and described, it would be apparent to those skilled in the art that many more modifications are possible without departing from the inventive concepts herein.

The invention, therefore, is not to be restricted except in the spirit of the appended claims.

IPR2022-01289 Page 00323

What is Claimed is:

1. A remote control device for use with an electronics device, comprising:

a user entry interface configured for receiving a user command from a user;

a first wireless transmitter coupled to said user entry interface for receiving said user command, said first wireless transmitter configured for wirelessly transmitting said user command to external processing circuitry;

a wireless receiver configured for receiving formatting data from said external processing circuitry;

control circuitry coupled to said wireless receiver for receiving said formatting data, said control circuitry configured for generating a code based on said formatting data; and

a second wireless transmitter coupled to said control circuitry for receiving said code, said second wireless transmitter configured for transmitting said code to said electronics device.

2. The remote control device of claim 1, wherein said user entry interface comprises an electro-acoustic transducer, and said user command is a voice command.

3. The remote control device of claim 2, wherein said electro-acoustic transducer is a microphone.

4. The remote control device of claim 1, wherein said user entry interface comprises a keypad, and said user command is a keypad command.

5. The remote control device of claim 1, further comprising re-writeable memory coupled to the control circuitry, and wherein said wireless receiver is configured for receiving function key data from said external processing circuitry, and said control circuitry is configured for storing said formatting data and said function key data in said re-writeable memory.

6. The remote control device of claim 1, wherein said control circuitry comprises a microcomputer.

7. The remote control device of claim 1, wherein said code is a pulse code, and said second wireless transmitter is configured for modulating a carrier signal with said pulse code, and wirelessly transmitting said pulse-modulated signal to said electronics device.

8. The remote control device of claim 1, wherein said first wireless transmitter and said wireless receiver are, in combination, an RF transceiver.

9. The remote control device of claim 1, wherein said second wireless transmitter is an IR transmitter.

10. The remote control device of claim 1, further comprising at least one of an electro-optical transducer and an electro-acoustic transducer coupled to said control circuitry, wherein said wireless receiver is configured for receiving messaging data from said external processing circuitry, said control circuitry is coupled to said wireless receiver for receiving said messaging data, said control circuitry being configured for generating a messaging signal in response to said messaging data, and transmitting said messaging signal to said at least one of an electro-optical transducer and an electro-acoustic transducer.

11. The remote control device of claim 1, wherein said electronics device comprises a consumer electronics device.

12. A remote control system for use with an electronics device, comprising:

a user entry interface configured for receiving a user command from a user;

a first wireless transmitter coupled to said user entry interface for receiving said user command, said first wireless transmitter configured for wirelessly transmitting said user command;

a first wireless receiver configured for wirelessly receiving said user command;

processing circuitry coupled to said first wireless receiver for receiving said user command, said processing circuitry configured for generating formatting data in response to said user command;

a second wireless transmitter coupled to said control circuitry for receiving said formatting data, said second wireless transmitter configured for wirelessly transmitting said formatting data;

a second wireless receiver configured for wirelessly receiving said formatting data;

control circuitry coupled to said second wireless receiver for receiving said formatting data, said control circuitry configured for generating a code based on said formatting data; and

a third wireless transmitter coupled to said control circuitry for receiving said code, said third wireless transmitter configured for transmitting said code to said electronics device.

13. The remote control system of claim 12, wherein said user entry interface, said first wireless transmitter, said second wireless receiver, said control circuitry, and said third wireless transmitter are associated with a hand-held remote control device, and wherein said second wireless transmitter, said processing circuitry, and said first wireless receiver are associated with a personal computer.

14. The remote control system of claim 12, wherein said user entry interface comprises an electro-acoustic transducer, and said user command is a voice command.

15. The remote control system of claim 14, wherein said electro-acoustic transducer is a microphone.

16. The remote control system of claim 12, wherein said user entry interface comprises a keypad, and said user command is a keypad command.

17. The remote control system of claim 12, further comprising re-writeable memory coupled to the control circuitry, wherein said processing circuitry is configured for generating function key data in response to said user command, said second wireless transmitter is coupled to said processing circuitry to receive said function key data, and configured for wirelessly transmitting said function key data, said second wireless receiver is configured for receiving said function key data, and said control circuitry is configured for storing said formatting data and said function key data in said re-writeable memory.

18. The remote control system of claim 12, wherein said electronics device comprises a consumer electronics device.

19. A method of configuring one or more electronics devices using a hand-held remote control device and a computer, comprising:

receiving a user command within the remote control device;

wirelessly transmitting said user command from said remote control device to said computer;

generating formatting data within said computer in response to said user command;

wirelessly transmitting said formatting data from said computer to said remote control device;

generating a control signal within said remote control device based on said formatting data; and

wirelessly transmitting said control signal from said remote control device to said one or more electronics devices.

20. The method of claim 19, wherein said user command is a voice command.

21. The method of claim 20, wherein said user command is a keypad command.

22. The method of claim 19, further comprising generating function key data within said computer in response to said user command, wirelessly transmitting said function key data to said remote control device, and storing said formatting data and said function key data within said remote control device.

23. The method of claim 19, further comprising generating a plurality of specific function commands within said computer in response to said user command, wherein said formatting data is generated in response to said specific function commands.

24. The method of claim 23, wherein said plurality of specific function commands are preset.

25. The method of claim 23, wherein the plurality of specific function commands is customized.

26. The method of claim 19, wherein said formatting data is generated by configuring said computer with one or more sets of formatting data corresponding to said one or more electronics devices, respectively, and selecting said formatting data from said one or more sets of formatting data.

27. The method of claim 26, wherein said computer is configured with said one or more sets of formatting data from a central database.

IPR2022-01289 Page 00328

28. The method of claim 26, wherein said computer is configured with said one or more sets of formatting data from a custom database.

29. The method of claim 19, further comprising downloading a program schedule into said computer, wherein said formatting data is based, at least in part, on said program schedule.

30. The method of claim 19, wherein said control signal is generated by generating a code based on said formatting data, generating a carrier signal, and modulating said carrier signal with said code.

31. The method of claim 30, wherein said code is a pulse code.

32. The method of claim 19, further comprising:

generating a plurality of control signals within said remote control device based on said formatting data; and

wirelessly transmitting said plurality of control signals to a plurality of electronics devices.

33. The method of claim 19, further comprising:

generating messaging data within said computer;

wirelessly transmitting said messaging data to said remote control device; and

transforming said messaging data into user-discernible information.

34. The method of claim 19, wherein said one or more electronics devices comprises one or more consumer electronics devices.

35. A remote control system for use with an electronics device, comprising:

a voice-activated remote control device;

a personal computer;

a wireless voice interface between said remote control device and said personal computer; and

a wireless data interface between said remote control device and said personal computer.

36. The universal remote control system of claim 35, wherein said wireless voice interface is simplex and said wireless data interface is duplex.

37. The universal remote control system of claim 35, wherein said electronics device comprises a consumer electronics device.

38. A personal computer system for use with an electronics device, comprising:

a wireless receiver for wirelessly receiving a user command from a remote control device;

a wireless transmitter for wirelessly transmitting formatting data to said remote control device;

a personal computer coupled to said wireless receiver and said wireless transmitter for receiving said user command from said wireless receiver and transmitting said formatting data to said wireless transmitter;

a computer software package associated with said personal computer, said computer software package configured for generating said formatting data in response to said user command.

39. The personal computer system of claim 38, wherein said user command is a voice command, and said computer software package includes a voice recognition module configured for recognizing said voice command.

40. The personal computer system of claim 38, wherein said computer software package includes:

a macro command module configured for generating a plurality of specific function commands in response to said user command; and

a formatting data module configured for generating said formatting data in response to said plurality of specific function commands.

41. The personal computer system of claim 40, wherein said computer software package includes a program scheduling list, and said macro command module generates said specific function commands based, at least in part, on said program scheduling list.

42. The personal computer system of claim 38, wherein said computer software package includes a messaging data module configured for generating messaging data in response to said user command, said personal computer is coupled to said wireless transmitter to transmit said messaging data thereto, and said wireless transmitter is configured for wirelessly transmitting said messaging data to said remote control device.

43. The personal computer system of claim 38, wherein said electronics device comprises a consumer electronics device.

IPR2022-01289 Page 00331

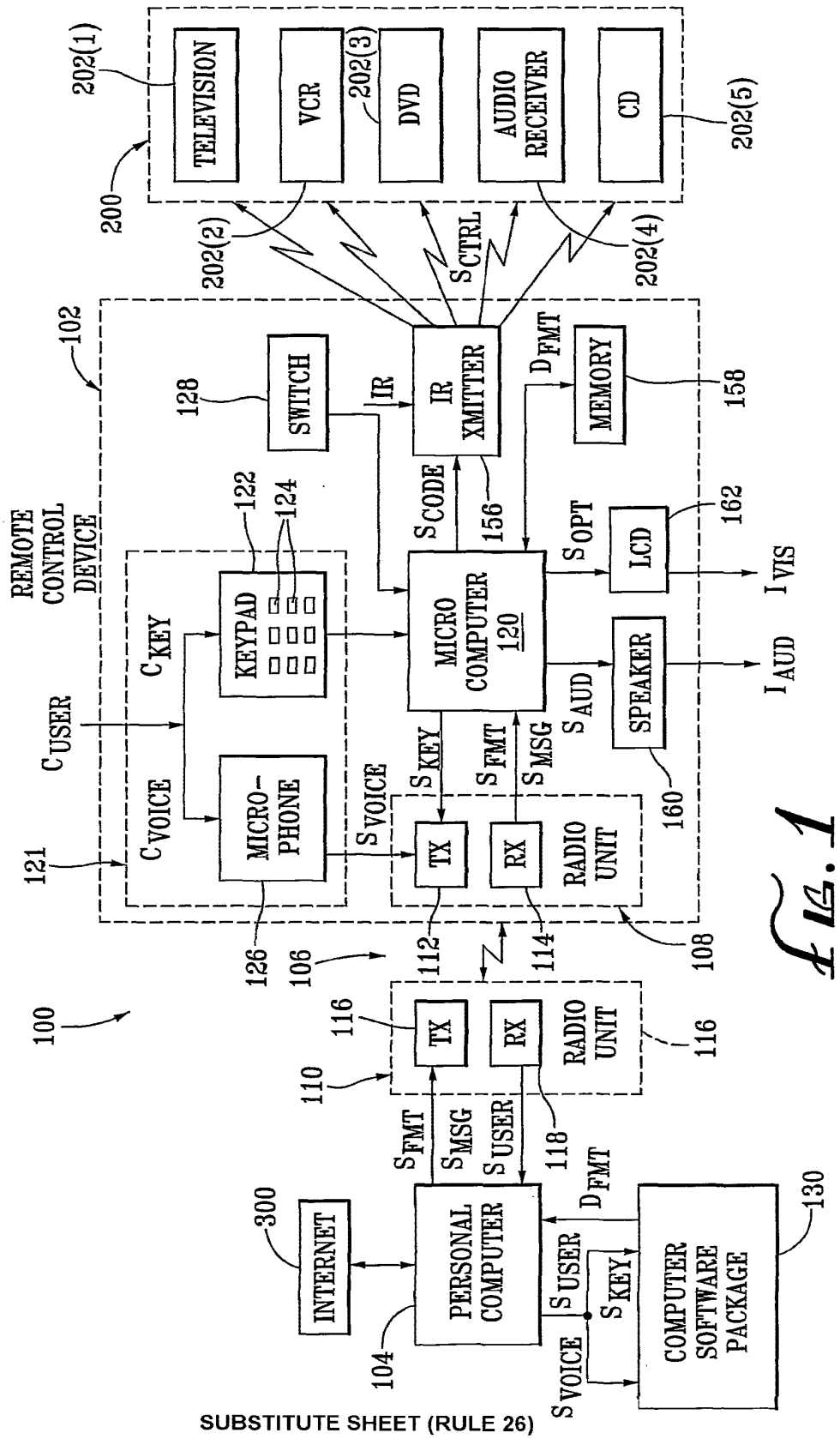

200
202(1)
TELEVISION
VCR
202(3)
DVD
AUDIO RECEIVER
CD
202(5)
202(2)
202(4)
S CTRL
102
REMOTE CONTROL DEVICE
128
SWITCH
IR
IR XMITTER
D FMT
MEMORY
158
122
124
S CODE
156
S OPT
LCD
162
I VIS
KEYPAD
MICRO COMPUTER 120
SPEAKER
I AUD
C KEY
C USER
C VOICE
MICRO-PHONE
S KEY
S FMT
S MSG
S AUD
S VOICE
TX
RX
RADIO UNIT
160
121
126
106
112
114
108
100
116
110
118
S FMT
S MSG
S USER
D FMT
300
INTERNET
PERSONAL COMPUTER
S USER
S KEY
S VOICE
COMPUTER SOFTWARE PACKAGE
130
104

FIG. 1

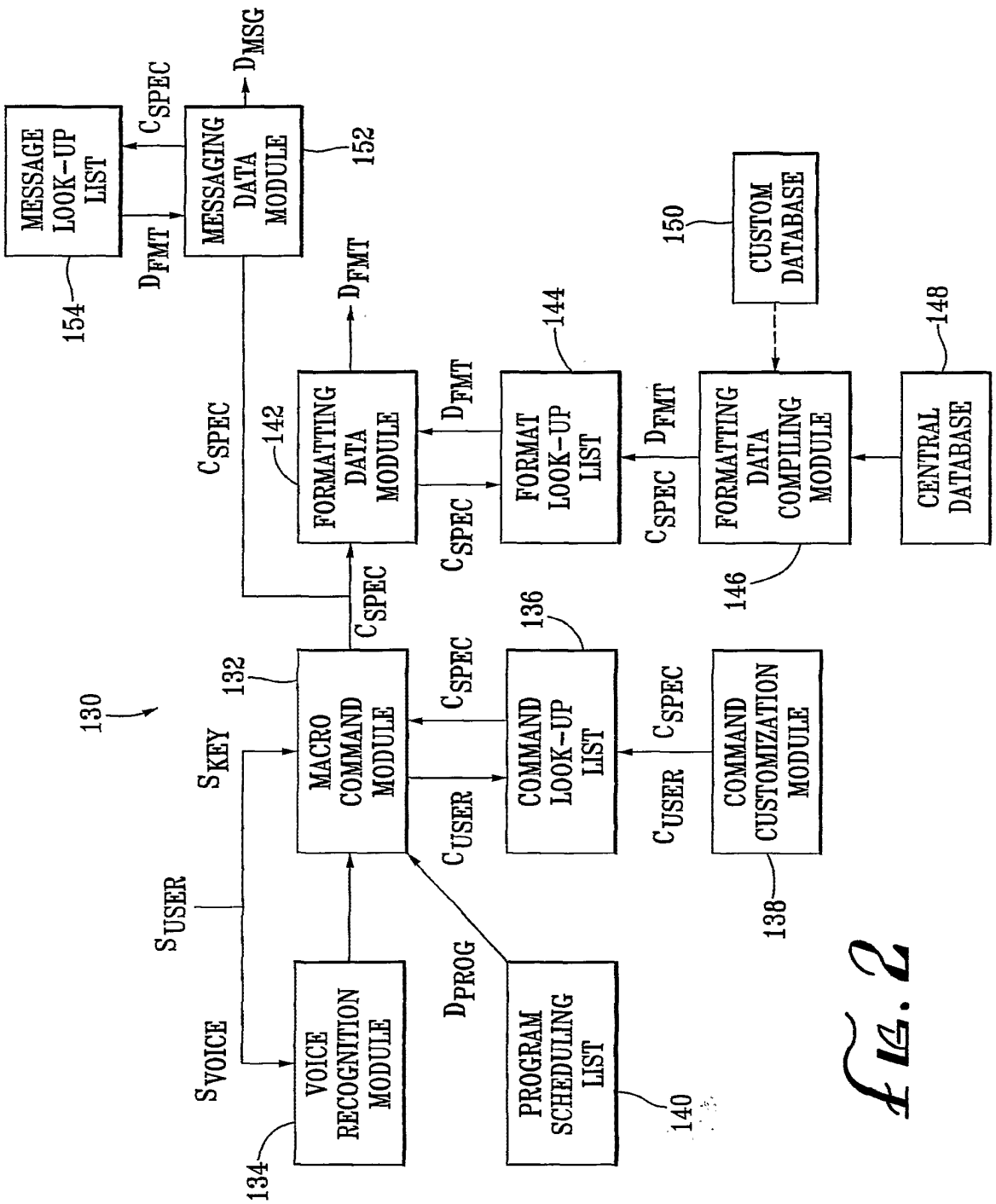

MESSAGE LOOK-UP LIST
154
C_{SPEC}
D_{FMT}
MESSAGING DATA MODULE
152
D_{MSG}
D_{FMT}
FORMATTING DATA MODULE
142
C_{SPEC}
D_{FMT}
FORMAT LOOK-UP LIST
144
C_{SPEC}
CUSTOM DATABASE
150
FORMATTING DATA COMPILING MODULE
146
CENTRAL DATABASE
148
130
S_{KEY}
MACRO COMMAND MODULE
132
C_{SPEC}
COMMAND LOOK-UP LIST
136
C_{USER}
C_{SPEC}
COMMAND CUSTOMIZATION MODULE
138
S_{USER}
S_{VOICE}
VOICE RECOGNITION MODULE
134
D_{PROG}
PROGRAM SCHEDULING LIST
140

FIG. 2

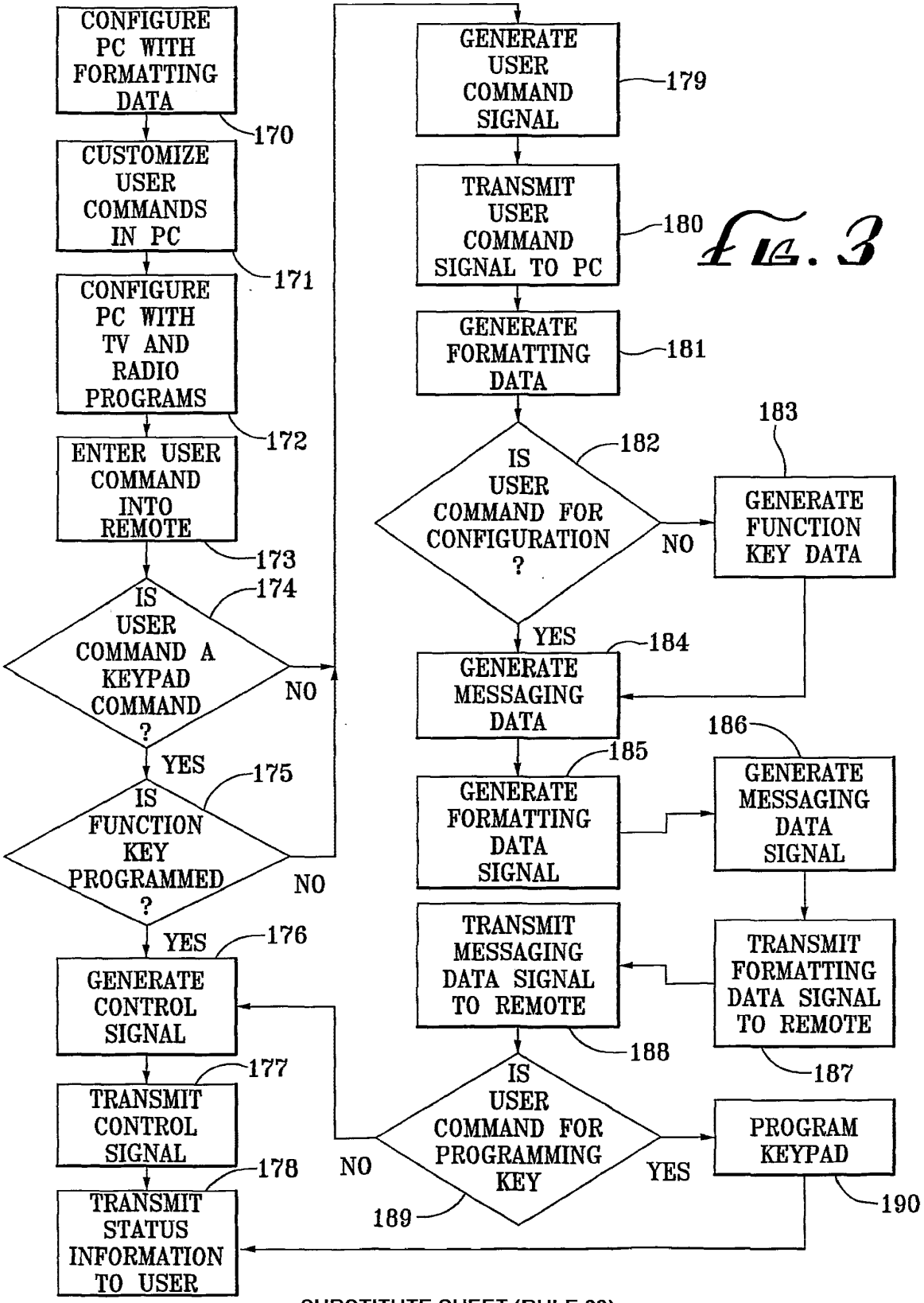

CONFIGURE PC WITH FORMATTING DATA
170
CUSTOMIZE USER COMMANDS IN PC
171
CONFIGURE PC WITH TV AND RADIO PROGRAMS
172
ENTER USER COMMAND INTO REMOTE
173
IS USER COMMAND A KEYPAD COMMAND ?
174
NO
YES
IS FUNCTION KEY PROGRAMMED ?
175
NO
YES
GENERATE CONTROL SIGNAL
176
TRANSMIT CONTROL SIGNAL
177
TRANSMIT STATUS INFORMATION TO USER
178
GENERATE USER COMMAND SIGNAL
179
TRANSMIT USER COMMAND SIGNAL TO PC
180
GENERATE FORMATTING DATA
181
IS USER COMMAND FOR CONFIGURATION ?
182
NO
YES
183
GENERATE FUNCTION KEY DATA
GENERATE MESSAGING DATA
184
GENERATE FORMATTING DATA SIGNAL
185
GENERATE MESSAGING DATA SIGNAL
186
TRANSMIT FORMATTING DATA SIGNAL TO REMOTE
187
TRANSMIT MESSAGING DATA SIGNAL TO REMOTE
188
IS USER COMMAND FOR PROGRAMMING KEY
189
NO
YES
PROGRAM KEYPAD
190

FIG. 3

Electronic Acknowledgement Receipt

EFS ID:	22416565
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	21-MAY-2015
Filing Date:	17-NOV-2011
Time Stamp:	15:47:59
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	TransmittalForm_13298629.pdf	188983 654f2d1ae218872efa7894c1bd0df3a1b92c4d14	no	2
Warnings:					
Information:					

2	Information Disclosure Statement (IDS) Form (SB08)	IDS_13298629.pdf	612516 945b0c154a817e4681d287dc289068cef2579696	no	4
Warnings:					
Information:					
3	Transmittal Letter	CertStat_13298629.pdf	187479 80731a58fbe597e96942c6c9bc17399cc46e53f5	no	1
Warnings:					
Information:					
4	Foreign Reference	ForeignRef_WO0175837A2.pdf	1662523 e755fc79ffc2e91fed6a299ef260c74b9fd306ee	no	35
Warnings:					
Information:					
5	Non Patent Literature	NPLepSR_156EP.pdf	1032143 00fd5a72a30a2794666d3e8804a4b339755e0dc5	no	6
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Total Number of Pages in This Submission

Application Number	13/298,629
Filing Date	11/17/2011
First Named Inventor	Jonathan Lim
Art Unit	2658
Examiner Name	Godbold, Douglas
Attorney Docket Number	81230.156US1

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☑ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
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- ☐ Petition
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Firm Name	Greenberg Traurig, LLP - Customer No. 34018		
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Printed name	Gary R. Jarosik		
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 05/28/2015

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EXAMINER	
GODBOLD, DOUGLAS	

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
05/28/2015	ELECTRONIC

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

Application Number: 13/298,629
Filing Date: November 17, 2011
Appellant(s): LIM, JONATHAN

Gary R. Jarosik
Reg. No. 35,906
For Appellant

EXAMINER'S ANSWER

This is in response to the appeal brief filed 19 March 2015.

(1) Grounds of Rejection to be Reviewed on Appeal

Every ground of rejection set forth in the Office action dated 10 November 2014 from which the appeal is taken is being maintained by the examiner except for the grounds of rejection (if any) listed under the subheading "WITHDRAWN REJECTIONS." New grounds of rejection (if any) are provided under the subheading "NEW GROUNDS OF REJECTION."

(2) Response to Argument

Regarding Appellant's arguments, see Brief pages 5-8, that the combination of Huang, Huang '193 and Comerford fail to teach the limitation of "one or more of a series of individual command function entries of a codeset record having a phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced" the examiner respectfully disagrees. Appellant's arguments seem to be based on an assertion that Comerford requires the use of an index in order to locate command based on the input data. Even if this were the case, there is nothing in the claim of the instant application that prevents an index as part of the codeset data. Even assuming the claim does require this limitation, the index itself can be considered the codeset record when combined with the other prior art references. The synonym data entries of Comerford could be directing incorporated into the codeset data of the Huang and Huang '193, forming a single codeset record for a command entry. In other words, the codeset data entry of the instant claims may consist of the command mapping and the synonym entries taught by Comerford taken together.

Appellant also argues that Comerford does not teach providing “individual command function entries within a codeset record.” It is noted that Comerford was not relied upon to teach this limitation. In the rejection of the claims, Examiner relied upon Huang to teach “individual command function entries within a codeset record” (see final rejection dated 10 November 2014, page 3). Thus it is irrelevant whether Comerford teaches this feature or not.

Appellant also argues that Comerford cannot be combined with Huang and Huang '193 because it would require that the functionality of the separate and distinct Comerford data structures be impermissibly changed, i.e., it would, at a minimum, require the elimination of the "vocabulary data structure" and corresponding indices which are integral to the operation of the Comerford system. The examiner respectfully disagrees. While the combination would require modification, i.e. the record of Comerford would have to be combined with that of Huang and Huang '193, the function of the record of Comerford would stay the same. That is, in combination, Comerford still would provide for the linking of multiple synonyms to one executable command.

Appellant also argues that it has never been explained how or why the synonym data entries of Comerford could be or would be incorporated into the codeset data of Huang and Huang '193. The examiner respectfully disagrees. As for “how,” as laid out in the Non final rejection, the advisory action, and above, Comerford could be combined with Huang and Huang '193. The synonym index of Comerford would just become part of the data entries for commands in Huang and Huang ‘193. As for “why” the motivation to combine given in the final rejection provides this answer. In the Final

rejection dated 10 November 2014, it is stated that providing synonym support as taught by Comerford in the system of Huang and Huang '193 will provide "improved command recognition accuracy." It goes without saying that a system that can recognize more than one version of a command will have less error and missed recognition than a system that can only recognize a single version of a command correctly.

Therefore the combination of prior art teaches the limitations of the claims.

For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

/DOUGLAS GODBOLD/

Primary Examiner, Art Unit 2658

Conferees:

/ERIC YEN/

Primary Examiner, Art Unit 2658

/RICHEMOND DORVIL/
Supervisory Patent Examiner, Art Unit 2658

Requirement to pay appeal forwarding fee. In order to avoid dismissal of the instant appeal in any application or ex parte reexamination proceeding, 37 CFR 41.45 requires payment of an appeal forwarding fee within the time permitted by 37 CFR 41.45(a), unless appellant had timely paid the fee for filing a brief required by 37 CFR 41.20(b) in effect on March 18, 2013.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	Art Unit
	DOUGLAS GODBOLD	2658

✓	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	09/24/2013	03/31/2014	07/03/2014	10/29/2014	05/18/2015				
	1	✓	✓	✓	✓	A				
	2	✓	✓	-	-	-				
	3	✓	✓	✓	✓	A				
	4	✓	✓	✓	✓	A				
	5	✓	✓	✓	✓	A				
	6	✓	✓	✓	✓	A				
	7	✓	✓	✓	✓	A				
	8	✓	✓	✓	✓	A				
	9	✓	✓	✓	✓	A				
	10	✓	-	-	-	-				
	11	✓	✓	✓	✓	A				
	12	✓	✓	✓	✓	A				
	13	✓	✓	✓	✓	A				
	14	✓	✓	✓	✓	A				
	15	✓	✓	✓	✓	A				
	16	✓	✓	-	-	-				
	17	✓	✓	✓	✓	A				
	18	✓	✓	✓	✓	A				
	19	✓	✓	✓	✓	A				
	20	✓	✓	-	-	-				
	21	✓	✓	-	-	-				
	22	✓	✓	✓	✓	A				
	23	✓	-	-	-	-				
	24	✓	✓	✓	✓	A				
	25	✓	✓	-	-	-				
	26			✓	✓	A				

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 06/23/2015

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GODBOLD, DOUGLAS	

ART UNIT	PAPER NUMBER
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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
13/298,629	17 November, 2011	LIM, JONATHAN	81230.156US1

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Primary Examiner, Art Unit 2658

PTO-90C (Rev.04-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	13298629
	Filing Date	2011-11-17
	First Named Inventor	Jonathan Lim
	Art Unit	2658
	Examiner Name	Godbold, Douglas
	Attorney Docket Number	81230.156US1

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	2	20090292375	A1	2009-11-26	Thompson et al.	

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	Art Unit	2658
	Examiner Name	Godbold, Douglas
	Attorney Docket Number	81230.156US1

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	EUROPEAN PATENT OFFICE, Supplementary European Search Report issued on European patent application number 12850322.4, dated March 4, 2015, 6 pages	☐

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	Art Unit	2658
	Examiner Name	Godbold, Douglas
	Attorney Docket Number	81230.156US1

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

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

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

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DG/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lim	) Examiner:	Godbold, Douglas
		)	
Application No.:	13/298,629	) Attny Doc.:	81230.156US1
		)	
Filing Date:	November 17, 2011	) Art Unit:	2658
		)	
Title:	System And Method For Voice Activated Configuration of a Controlling Device	)	

REPLY BRIEF

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Commissioner for Patents
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Alexandria, VA 22313-1450

Dear Sir:

Appellant hereby submits this Reply Brief in response to the Examiner's Answer dated May 28, 2015.

The Commissioner is hereby authorized to charge the Appeal Processing Fee to deposit account number 50-2428 in the name of Greenberg Traurig.

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/Gladys Munoz/
Gladys Munoz

CHI 66132828v1

REMARKS

In accordance with 37 CFR §§ 41.41(a)(1) and 41.43(b), Appellant hereby submits this Reply Brief in response to the Examiner's Answer.

It is again respectfully submitted that Comerford describes a system in which a first data structure, namely a "vocabulary data structure," stores a set of strings and a system in which the list of strings stored in the "vocabulary data structure" is searched by successively comparing a "spoken command" with the strings stored within the "vocabulary data structure." When a match is found between the "spoken command" and a string stored in the "vocabulary data structure," the system of Comerford **then** uses *the index* of the matched string within the "vocabulary data structure," i.e., its position in the array, *to find a corresponding command and data element in a further command string array and data string array, respectively*. (Col. 16, lines 16-43).

In the Examiner's Answer it was asserted that "there is nothing in the claim of the instant application that prevents an index as part of the codeset data." (Ex. Ans., pg. 2; emphasis added). In response, it is respectfully submitted that, because the claimed invention sets forth providing *individual command function entries* within a codeset record, i.e., a data structure that **also** provides protocol and formatting information as well as command data as claimed, with a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced*, the claimed invention does not use (and need not use) *an index* **to find** a corresponding command and data element as is disclosed within Comerford. Furthermore, because a unique phonetic representation is matched within a codeset record to an individual command function entry in the claimed invention, the claimed invention does not provide (and need not provide) an index "for

the linking of multiple synonyms to one executable command" as described in Comerford. (Ex. Ans. Pg. 3). Accordingly, because the claimed invention is not directed to using (and does not use) an *index* of a matched string within the "vocabulary data structure" to find a corresponding command and data element and because the claimed invention removes the need for the functionality provided by the Comerford vocabulary data structure and the use of the index provided thereby, it is respectfully submitted that simply using the elements as described in Comerford with the elements of Huang and Huang (regardless of the position taken in the Examiner's Answer) would not result in the invention claimed. For this reason, it is respectfully submitted that the combination of Huang, Huang, and Comerford cannot support a *prima facie* case of obviousness under 35 U.S.C. § 103 and the rejection of the claims based upon this combination must be withdrawn.

Still further, it is respectfully noted that it was acknowledged in the Examiner's Answer that the elements of Comerford could not be simply combined with the element of Huang and Huang to arrive at the invention claimed. Rather, it was acknowledged that "the combination would require modification." While it was asserted that this modification would not require any change to the functionality of the Comerford elements, it is respectfully submitted that this assertion cannot stand for at least the reasons set forth above. Accordingly, because the functionality of the elements described in Comerford would need to be *impermissibly* changed in order to arrive at the invention claimed (otherwise the acknowledged modification would not be required), it is respectfully submitted that this further evidences that the combination of Huang, Huang, and Comerford cannot support a *prima facie* case of obviousness under 35 U.S.C. § 103 and the rejection based upon this combination must be withdrawn.

Finally, it is respectfully submitted that it still remains unclear how or why the synonym

data entries of Comerford could be or would *be incorporated into the codeset data* of Huang and Haung '193 as asserted (which Appellant submits they cannot be without materially changing the functionality of the disclosed elements) instead of being used as described in Comerford. For example, while one of skill in the art might be led to use the "vocabulary data structure" as described in Comerford (where the index of a matched string within the "vocabulary data structure" would then be used *to find a corresponding command and data element in a separate Huang-like code set* in keeping with what is further described in Comerford) to thereby "improve command recognition accuracy" as asserted, it still has not been explained how or why one of skill in the art would or could use the teachings of Comerford to instead be led to provide *individual command function entries* within a codeset record with *a phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries is to be referenced* as claimed. Thus, because the rejection of the claims is not supported by any articulated reasoning with some rational underpinning as also required of a *prima facie* case of obviousness, it is respectfully submitted that a *prima facie* case of obviousness has not been presented and the rejection of the claims under 35 U.S.C. § 103 must be withdrawn.

Respectfully Submitted;

Date: July 27, 2015

By: /Gary R. Jarosik/
Gary R. Jarosik; Reg. No. 35,906
Greenberg Traurig, LLP
77 West Wacker Drive, Suite 2500
Chicago, Illinois 60601
(312) 456-8449

Electronic Patent Application Fee Transmittal

Application Number:	13298629
Filing Date:	17-Nov-2011
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Attorney Docket Number:	81230.156US1

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:				
Appeal Forwarding Fee	1413	1	2000	2000
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**2000**

Electronic Acknowledgement Receipt	
EFS ID:	23030720
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	27-JUL-2015
Filing Date:	17-NOV-2011
Time Stamp:	14:51:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$2000
RAM confirmation Number	12455
Deposit Account	502428
Authorized User	JAROSIK, GARY R
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1	Transmittal Letter	TransmittalForm_13298629.pdf	147357 08054323f5a827b051d145ff803c6b6f1b5ff126	no	1
Warnings:					
Information:					
2	Reply Brief Filed	ReplyBrief_13298629.pdf	125904 04210badebf293c9ff04c4a84b68d5ebc639a73a	no	4
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30704 b596ea2d8c851d7b90410bb0aace0d64f68461e1	no	2
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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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Doc Code: TRAN.LET
Document Description: Transmittal Letter

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	5

Application Number	13/298,629
Filing Date	11/17/2011
First Named Inventor	Jonathan Lim
Art Unit	2658
Examiner Name	Godbold, Douglas
Attorney Docket Number	81230.156US1

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
- ☑ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
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- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☑ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☐ Other Enclosure(s) (please identify below):

Remarks

The fee attached is the Appeal Forwarding Fee.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Greenberg Traurig, LLP - Customer No. 34018		
Signature	/Gary R. Jarosik/		
Printed name	Gary R. Jarosik		
Date	July 27, 2015	Reg. No.	35,906

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

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Typed or printed name	Gladys Negron-Munoz	Date	July 27, 2015

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 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, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 08/05/2015

GREENBERG TRAURIG, LLP (CHI)
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SUITE 3100
CHICAGO, IL 60601-1732

EXAMINER	
GODBOLD, DOUGLAS	

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
08/05/2015	ELECTRONIC

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

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escobedot@gtlaw.com
jarosikg@gtlaw.com

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SUITE 3100
CHICAGO, IL 60601-1732

Appeal No: 2015-007245
Application: 13/298,629
Appellant: Jonathan Lim et al.

Patent Trial and Appeal Board Docketing Notice

Application 13/298,629 was received from the Technology Center at the Board on August 03, 2015 and has been assigned Appeal No: 2015-007245.

In all future communications regarding this appeal, please include both the application number and the appeal number.

The mailing address for the Board is:

PATENT TRIAL and APPEAL BOARD
UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VIRGINIA 22313-1450

Telephone inquiries can be made by calling 571-272-9797 and referencing the appeal number listed above.

By order of the Patent Trial and Appeal Board.

AL

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 12/30/2016

GREENBERG TRAURIG, LLP
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SUITE 3100
CHICAGO, IL 60601-1732

EXAMINER	
GODBOLD, DOUGLAS	

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
12/30/2016	ELECTRONIC

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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Ex parte JONATHAN LIM

Appeal 2015-007245
Application 13/298,629
Technology Center 2600

Before: MICHAEL J. STRAUSS, IRVIN E. BRANCH and ADAM J. PYONIN, *Administrative Patent Judges*.

BRANCH, *Administrative Patent Judge*.

DECISION ON APPEAL

STATEMENT OF THE CASE

Appellant appeals under 35 U.S.C. § 134 from a rejection of claims 1, 3–9, 11–15, 17–19, 22, 24, and 26. We have jurisdiction under 35 U.S.C. § 6(b).

We affirm.

CLAIMED SUBJECT MATTER

The claims are directed to voice actuated configuration of a controlling device. Abstract.

Claim 1, reproduced below, is representative of the claimed subject matter:

> 1. A method for configuring a controlling device to command functional operations of a target appliance, the method comprising:
>
> causing a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance, the provisioned codeset record comprising protocol and formatting information and a series of individual command function entries wherein each of the series of individual function entries comprises command data and wherein each of one or more of the series of individual command function entries having a common command data comprise a phonetic representation of a unique one of a plurality of function name synonyms by which each of the one or more of the series of individual command function entries having the common command data is to be referenced;
>
> causing less than all of the individual command function entries from within the provisioned codeset record to each be matched to one or more of a plurality of user input elements of the controlling device whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one or more of the plurality of individual command function entries from within the provisioned codeset record that was mapped to the one of the plurality of user input element activated; and
>
> causing the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of a

IPR2022-01289 Page 00364

function name synonym which corresponds to voice data provided to a speech recognition engine.

REJECTION

Claims 1, 3–9, 11–15, 17–19, 22, 24, and 26 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Huang 1 (US 2009/0254778), Huang 2 (US 2008/0059193 A1), and Comerford (US 6,748,361). Final Act. (mailed November 10, 2014) 2–15.

ANALYSIS

We have reviewed the Examiner's rejection in light of Appellant's arguments that the Examiner erred. We disagree with Appellant that the Examiner erred and adopt as our own the findings and conclusions set forth by the Examiner in the Final Action and the Examiner's Answer. We highlight and address specific findings and arguments for emphasis as follows.

Appellant argues Comerford does not disclose individual command function entries that provide protocol and formatting information. App. Br. 6. This argument is unpersuasive because Huang 1, not Comerford, was cited for this finding. *See* Final Act. 3–4.

Appellant also argues the Examiner's proposed combination would require impermissible changes to Comerford's data structures. App. Br. 7. This argument is unpersuasive because Appellant's argument amounts to an assertion that Comerford's data structures must be bodily incorporated into the structure of Huang 1 and Huang 2. "The test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference.... Rather, the test is what the

IPR2022-01289 Page 00365

combined teachings of those references would have suggested to those of ordinary skill in the art." *In re Keller*, 642 F.2d 413, 425 (CCPA 1981). *See also In re Sneed*, 710 F.2d 1544, 1550 (Fed. Cir. 1983) ("[I]t is not necessary that the inventions of the references be physically combinable to render obvious the invention under review."); and *In re Nievelt*, 482 F.2d 965, 968 (CCPA 1973) ("Combining the *teachings* of references does not involve an ability to combine their specific structures."). Rather, "if a technique has been used to improve one device, and a person of ordinary skill in the art would recognize that it would improve similar devices in the same way, using the technique is obvious unless its actual application is beyond his or her skill." *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 398, 417 (2007).

Appellant argues further that

> it has never been explained how or why the synonym data entries of Comerford could be or would *be incorporated into the codeset data* of [Huang 1 and Huang 2] as asserted (which Appellant submits they cannot be without materially changing the functionality of the disclosed elements) instead of being used as described in Comerford.

App. Br. 7–8. This argument is unpersuasive because it is not an argument against obviousness. The Examiner found "it would have been obvious to one of ordinary skill in the art at the time of the invention to use synonym data as taught by Comerford in the system of Huang [1] and Huang [2] in order to improve command recognition accuracy." Final Act. 5 (citing Comerford 16:44–48). We are persuaded the Examiner has satisfied the burden of showing "'some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness.'" *KSR* 550 U.S. at 418 (quoting *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2006))).

Appellant does not persuasively challenge the Examiner's findings and conclusion that claim 1 would have been obvious over the cited references.

Accordingly, we are unpersuaded of error in the Examiner's rejection of claim 1 or the remaining claims, not separately argued. *See* App. Br. 5–8; Reply Br. 2–4.

DECISION

We affirm the Examiner's decision to reject claims 1, 3–9, 11–15, 17–19, 22, 24, and 26.

No time period for taking any subsequent action in connection with this appeal may be extended under 37 C.F.R. § 1.136(a). *See* 37 C.F.R. § 1.136(a)(1)(iv).

AFFIRMED

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Courtesy Reminder for
Application Serial No: 13/298,629

Attorney Docket No: 81230.156US1
Customer Number: 34018
Date of Electronic Notification: 12/30/2016

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lim	) Examiner:	Godbold, Douglas
Application No.:	13/298,629	) Attny Doc.:	81230.156US1
Filing Date:	November 17, 2011	) Art Unit:	2658
Title:	System And Method For Voice Activated Configuration of a Controlling Device	)	

REQUEST FOR REHEARING

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Dear Sir:

In accordance with 37 CFR § 41.52, Appellant hereby requests a rehearing of the subject appeal. This request is being filed within two months of the date of original decision, December 30, 2016.

Appellant is requesting a rehearing because the original decision evidences that the Board misapprehended or overlooked Appellant's argument that the rejection of the claims under 35 U.S.C. § 103 over Huang 1 (US 2009/0254778), Huang 2 (US 2008/0059193) and Comerford (US 6,748,361) cannot be maintained because no reference of record discloses, teaches, or suggest providing *individual command function entries within a codeset record* with a phonetic

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Certificate of Electronic Transmission: I hereby certify that this document and its attachments are being electronically transmitted to the U.S. Patent and Trademark Office via EFS-Web on this 15th day of February 2017.

/Gladys Munoz/
Gladys Munoz

CHI 67968655v1

representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced* as claimed.

That the Board misapprehended or overlooked this argument is evidenced by the statement in the Decision on Appeal that "Appellant argues that Comerford does not disclose individual command function entries that provide protocol and formatting information." (Bd. Dec., pg. 3).

When Appellant's argument is considered in its entirety, i.e., the argument that Comerford does not disclose, teach, or suggest providing *individual command function entries within a codeset record* with a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced* (App. Br., pg. 6), it will be appreciated that the remainder of Appellant's Appeal Brief sets forth the reasons why the disclosure within Comerford cannot be said to disclose, teach, or suggest modifying Huang 1 and/or Huang 2 to arrive at the exact invention claimed.

Specifically, while Appellant acknowledged that Huang 1, not Comerford, was cited for disclosing "individual command function entries that provide protocol and formatting information" (Bd. Dec., pg. 3), Appellant asserted that nothing within Comerford discloses, teach, or suggests modifying the codesets disclosed in Huang 1 to arrive at the exact invention claimed.

Furthermore, to the extent the rejection of the claims was based on the conclusion that it would have been obvious to one of ordinary skill in the art at the time of the invention to use synonym data as taught by Comerford in the system of Huang 1 and Huang 2," (Bd. Dec., pg. 4), Appellant maintains that, when the teachings of Comerford are considered in their entirety, as

required, it cannot be said that anything within Comerford discloses, teaches, or suggests providing *individual command function entries* within a codeset record with a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced* as was argued in Appellant's Appeal Brief. In this regard, when the teachings of Comerford are considered in their entirety, Appellant asserted that nothing within Comerford can be said to support the naked conclusion, i.e., a conclusion that fails to provide any explanation as to how or why, that it "would have been obvious to one of ordinary skill in the art at the time of the invention to use synonym data as taught be Comerford in the system of Huang 1 and Huang 2" to arrive at the exact invention claimed. Rather, the teachings of Comerford would lead one of ordinary skill in the art to modify Huang 1 and/or Huang 2 to, at best, arrive at a system that is not the invention claimed. (Reply Br., pgs. 2 and 3).

In summary, it is respectfully submitted that, because Comerford does not disclose, teach, or suggest providing *individual command function entries* within a codeset record with a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced* and because no rational reason has been provided to demonstrate how or why one of skill in the art would have used the teachings within Comerford – which **suggests** nothing more than a system in which a first data structure, namely a "vocabulary data structure," stores a set of strings and a system in which the list of strings stored in the "vocabulary data structure" is searched by successively comparing a "spoken command" with the strings stored within the "vocabulary data structure" - to modify Huang 1 and/or Huang 2 to arrive at the exact invention claimed, it is

again respectfully submitted that the rejection of the claims under 35 U.S.C. § 103 must be withdrawn.

Respectfully Submitted;

____/Gary R. Jarosik/____

Date: February 15, 2017

By: Gary R. Jarosik; Reg. No. 35,906
Greenberg Traurig, LLP
77 West Wacker Drive, Suite 2500
Chicago, Illinois 60601
(312) 456-8449

Electronic Acknowledgement Receipt

EFS ID:	28366616
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	15-FEB-2017
Filing Date:	17-NOV-2011
Time Stamp:	15:54:19
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	TransmittalForm_13298629.pdf	186511 bf7f061bc885b7e799372986aa8fc51fbf926c78	no	2
Warnings:					

Information:					
2	Request for Rehearing of Patent Board Decision	ReqRehearing_13298629_uei_156us1.pdf	119870 ac9619683189d8453350812adebe2a029c6f24e5	no	4
Warnings:					
Information:					
			Total Files Size (in bytes):	306381	

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

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

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

Doc Code: TRAN.LET

Document Description: Transmittal Letter

PTO/SB/21 (07-09)
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	13/298,629
Filing Date	11/17/2011
First Named Inventor	Jonathan Lim
Art Unit	2658
Examiner Name	Godbold, Douglas
Attorney Docket Number	81230.156US1

Total Number of Pages in This Submission

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☑ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☐ Other Enclosure(s) (please identify below):

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Greenberg Traurig, LLP - Customer No. 34018		
Signature	/Gary R. Jarosik/		
Printed name	Gary R. Jarosik		
Date	February 15, 2017	Reg. No.	35,906

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	/Gladys Negron-Munoz/		
Typed or printed name	Gladys Negron-Munoz	Date	February 15, 2017

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 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, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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1. 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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 03/02/2017

GREENBERG TRAURIG, LLP
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SUITE 3100
CHICAGO, IL 60601-1732

EXAMINER	
GODBOLD, DOUGLAS	

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
03/02/2017	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):

jarosikg@gtlaw.com
chiipmail@gtlaw.com
escobedot@gtlaw.com

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Ex parte JONATHAN LIM

Appeal 2015-007245
Application 13/298,629
Technology Center 2600

Before MICHAEL J. STRAUSS, IRVIN E. BRANCH, and ADAM J. PYONIN, *Administrative Patent Judges*.

BRANCH, *Administrative Patent Judge*.

DECISION ON REQUEST FOR REHEARING

STATEMENT OF CASE

Appellant requests rehearing of our Decision on Appeal entered - December 30, 2016 ("Decision"), in which we affirmed the Examiner's rejection of claims 1, 3–9, 11–15, 17–19, 22, 24, and 26.

ANALYSIS

We have reviewed the Request for Rehearing in view of our Decision. Appellant's arguments do not persuade us of anything our decision misapprehended or overlooked. We note the following for emphasis.

Appellant argues that our Decision misapprehended or overlooked Appellant's arguments as follows:

> because Comerford does not disclose, teach, or suggest providing *individual command function entries* within a codeset record with a phonetic representation of a unique one of a plurality of function name synonyms *by which each of the one or more of the series of individual command function entries is to be referenced* and because no rational reason has been provided to demonstrate how or why one of skill in the art would have used the teachings within Comerford - which **suggests** nothing more than a system in which a first data structure, namely a "vocabulary data structure," stores a set of strings and a system in which the list of strings stored in the "vocabulary data structure" is searched by successively comparing a "spoken command" with the strings stored within the "vocabulary data structure" - to modify Huang 1 and/or Huang 2 to arrive at the exact invention claimed, it is again respectfully submitted that the rejection of the claims under 35 U.S.C. § 103 must be withdrawn.

Req. Reh'g 3–4.

We find this unpersuasive because, as discussed in our Decision, the Examiner's rejection is not based on the teachings of a single reference but is instead based on what the combined teachings of the reference would have taught or suggested to one of ordinary skill in the art. *See* Decision 3–4*; In re Keller*, 642 F.2d 413, 425 (CCPA 1981). Appellant's argument that "no rational reason has been provided to demonstrate how or why one of skill in the art would have used the teachings within Comerford … to modify Huang 1 and/or Huang 2 to arrive at the exact invention claimed" (Req. Reh'g 3) is

not a persuasive argument against obviousness because it overlooks the Examiner's reasoning that "it would have been obvious to one of ordinary skill in the art at the time of the invention to use synonym data as taught by Comerford in the system of Huang [1] and Huang [2] in order to improve command recognition accuracy." Final Act. 5; Decision 4. Appellant has not provided sufficient persuasive argument or evidence to convince us that the Examiner's reasoning is not rational or that we misapprehended or overlooked any points in rendering our Decision.

DECISION

Based on the record before us now and in the original appeal, we have granted Appellant's request to the extent that we have reconsidered our Decision, but we deny Appellant's request to make any changes in our Decision.

The request for rehearing is denied.

No time period for taking any subsequent action in connection with this appeal may be extended under 37 C.F.R. § 1.136(a)(1)(iv).

REHEARING DENIED

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Courtesy Reminder for
Application Serial No: 13/298,629

Attorney Docket No: 81230.156US1
Customer Number: 34018
Date of Electronic Notification: 03/02/2017

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:

jarosikg@gtlaw.com
chiipmail@gtlaw.com
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To view your correspondence online or update your email addresses, please visit us anytime at **https://sportal.uspto.gov/secure/myportal/privatepair.** If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

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

PTO/SB/30EFS (07-09)
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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	13298629	Filing Date	2011-11-17	Docket Number (if applicable)	81230.156US1	Art Unit	2658
First Named Inventor	Jonathan Lim			Examiner Name	Godbold, Douglas		

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

SUBMISSION REQUIRED UNDER 37 CFR 1.114

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

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

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

☒ Enclosed

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

MISCELLANEOUS

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

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 502428

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (07-09)
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Signature of Registered U.S. Patent Practitioner			
Signature	/Gary R. Jarosik/	Date (YYYY-MM-DD)	2017-03-29
Name	Gary R. Jarosik	Registration Number	35906

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

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

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

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

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

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

Electronic Patent Application Fee Transmittal

Application Number:	13298629
Filing Date:	17-Nov-2011
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Attorney Docket Number:	81230.156US1

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1700	1700
		Total in USD ($)		**1700**

Electronic Acknowledgement Receipt	
EFS ID:	28768979
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	29-MAR-2017
Filing Date:	17-NOV-2011
Time Stamp:	11:25:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1700
RAM confirmation Number	032917INTEFSW00009458502428
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1		Resp_uei_156us1_13298629.pdf	137107 a7e15588f5bc1234d41fb90fcdce809ade481c3a	yes	9
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	1	
	Claims		2	7	
	Applicant Arguments/Remarks Made in an Amendment		8	9	
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	RCE_13298629.pdf	697598 d1affa6dad8ed280b99f0dd001b3120274980605	no	3
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30600 e572fc78fd36a17728e08bca4b15defa45eb75ed	no	2
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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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

Applicant:	Lim	) Examiner:	Godbold, Douglas
		)	
Application No.:	13/298,629	) Attny Doc.:	81230.156US1
		)	
Filing Date:	November 17, 2011	) Art Unit:	2658
		)	
Title:	System And Method For Voice Activated Configuration of a Controlling Device	)	

RESPONSE

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

Dear Sir:

In connection with the Request For Continued Examination filed herewith, please enter the Amendment To The Claims which begins on page 2 of this paper, and please consider the Remarks which begin on page 8 of this paper.

The Commissioner is authorized to charge any fee deficiency to deposit account number 50-2428 in the name of Greenberg Traurig, LLP.

Certificate of Electronic Transmission: I hereby certify that this document and its attachments are being electronically transmitted to the U.S. Patent and Trademark Office via EFS-Web on this 29th day of March, 2017.

/Gladys Negron-Munoz/
Gladys Negron-Munoz

CHI 68100098v1

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

causing a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance, the provisioned codeset record comprising protocol and formatting information and a ~~series~~ plurality of individual command function entries wherein each of the ~~series~~ plurality of individual function entries within the codeset record comprises command data, a standard function identifier, data which comprises a phonetic representation of a function name corresponding the standard function identifier, and ~~wherein each of one or more of the series of individual command function entries having a common command~~ a plurality of data each of which comprises a phonetic representation of a unique one of a plurality of ~~function name~~ synonyms of the function name ~~by which each of the one or more of the series of individual command function entries having the common command data is to be referenced~~;

causing less than all of the individual command function entries from within the provisioned codeset record to each be matched to one or more of a plurality of user input elements of the controlling device whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one or more of the plurality of individual command function entries from within the provisioned codeset record that was mapped to the one of the plurality of user input element activated; and

causing the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of the function name or a ~~function name~~ synonym of the function name which corresponds to voice data provided to a speech recognition engine.

2. (Cancelled)

3. (Previously Presented) The method as recited in claim 1, wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data.

4. (Previously Presented) The method as recited in claim 26, wherein the controlling device comprises a memory having stored therein the library of codeset records.

5. (Previously Presented) The method as recited in claim 1, wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine.

6. (Previously Presented) The method as recited in claim 1, wherein the speech recognition engine is executed on a computing device remote from the controlling device.

7. (Previously Presented) The method as recited in claim 26, wherein the library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records by being downloaded thereto.

8. (Previously Presented) The method as recited in claim 1, wherein codeset is provisioned

to the controlling device by being downloaded thereto.

9. (Previously Presented) The method as recited in claim 1, wherein the method comprises receiving at the speech recognition engine voice data for mapping each of the less than all of the individual command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device.

10. (Cancelled)

11. (Previously Presented) The method as recited in claim 1, comprising using at least location data to identify the codeset record that is caused to be provisioned to the controlling device.

12. (Previously Presented) The method as recited in claim 26, wherein location data is additionally utilized in the process of identifying the codeset record that is caused to be provisioned to the controlling device.

13. (Currently Amended) A system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance wherein the provisioned codeset record comprises protocol and formatting information and a ~~series~~ plurality of individual command function entries wherein each of the plurality of individual function entries within the codeset record ~~which~~ comprises command

data, a standard function identifier, data which comprises a phonetic representation of a function name corresponding to the standard function idenfier, and ~~one or more of the series of individual command function entries having a common command data comprise~~ a plurality of data each of which comprises a phonetic representation of a unique one of a plurality of ~~function name~~ synonyms of the function name ~~by which each of the one or more of the series of individual command function entries is to be referenced~~; cause less than all of the individual command codes from within the provisioned codeset record to each be mapped to one or more of a plurality of user input elements of the controlling device wherein a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a corresponding one or more of the plurality of individual command function entries from with the provisioned codeset record that was mapped to the one of the plurality of user input elements activated, and cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic representation of the function name or a ~~function name~~ synonym of the function name which corresponds to voice data provided to a speech recognition engine.

14. (Original) The system as recited in claim 13, wherein the instructions are downloaded to the controlling device in a downloadable app.

15. (Original) The system as recited in claim 14, wherein the controlling device comprises one of a smart phone or a tablet computing device.

16. (Cancelled)

17. (Previously Presented) The system as recited in claim 13, wherein the controlling device comprises a memory having stored therein a library of codeset records including the provisioned codeset record.

18. (Previously Presented) The system as recited in claim 13, wherein a library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records by being downloaded thereto.

19. (Original) The system as recited in claim 13, wherein the processing device comprises one or more computing devices located remotely from the controlling device.

20. (Cancelled)

21. (Cancelled)

22. (Previously Presented) The system as recited in claim 13, wherein the instructions use voice data received by the speech recognition engine to map each of the less than all of the command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device.

23. (Cancelled)

24. (Previously Presented) The system as recited in claim 13, wherein the instructions

additionally use at least location data to identify codeset that is provisioned to the controlling device.

25. (Cancelled)

26. (Previously Presented) The method as recited in claim 1, comprising receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codeset records the codeset record that is caused to be provisioned to the controlling device.

REMARKS

In the application claims 1, 3-9, 11-15, 17-19, 22, 24, and 26 remain pending. Claims 2, 10, 16, 20, 21, 23, and 25 have been cancelled without prejudice. The claims as amended find support in the application as originally filed. As such, no new matter has been added.

Independent claims 1 and 13 stand rejected under 35 U.S.C. § 103 as being rendered obvious by Huang (U.S. Application No. 2009/0254778) in view of Haung '193 (U.S. Application No. 2008/0059193) in further view of Comerford (US Patent No. 6,748,361).

It is has been acknowledged that Huang and Huang '193 do not disclose, teach, or suggest each of a plurality of individual function entries within a codeset record comprising command data, a standard function identifier, data which comprises a phonetic representation of a function name corresponding the standard function identifier, and a plurality of data each of which comprises a phonetic representation of a unique one of a plurality of synonyms of the function name.

Considering now Comerford, it is respectfully submitted that Comerford discloses a system in which a first data structure, namely a "vocabulary data structure," stores a set of strings and a system in which the list of strings stored in the "vocabulary data structure" is searched by successively comparing a "spoken command" with the strings stored within the "vocabulary data structure." When a match is found between the "spoken command" and a string stored in the "vocabulary data structure," the system of Comerford **then** uses the index of the matched string within the "vocabulary data structure," i.e., its position in the array, *to find a corresponding command and data element in a further command string array and data string array, respectively*. (Col. 16, lines 16-43).

From the foregoing it will be appreciated that Comerford cannot be said to teach or suggest modifying Huang and/or Huang '193 such that a plurality of *individual command function entries* within a codeset record, i.e., a data structure that **also** provides protocol and

formatting information as well as command data, is provided with all of a standard function identifier, data which comprises a phonetic representation of a function name corresponding the standard function identifier, and a plurality of data each of which comprises a phonetic representation of a unique one of a plurality of synonyms of the function name as claimed. For at least this reason, it is respectfully submitted that the rejection of the claims under 35 U.S.C. §103 based upon the combination of Huang, Huang '193, and Comerford must be withdrawn.

CONCLUSION

It is respectfully submitted that the application is now in good and proper form for allowance. Such action on the part of the Examiner is respectfully requested.

Respectfully Submitted;

/Gary Jarosik/

Date: March 29, 2017

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/298,629	Filing Date 11/17/2011	☐ 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 03/29/2017

	(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))	* 19	Minus	** 25	= 0	X $80 =	0
Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $420 =	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
MARQUITA JONES

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

34018 7590 04/24/2017

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EXAMINER	
GODBOLD, DOUGLAS	

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
04/24/2017	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):

jarosikg@gtlaw.com
chiipmail@gtlaw.com
escobedot@gtlaw.com

Office Action Summary	Application No. 13/298,629	Applicant(s) LIM, JONATHAN	
	Examiner DOUGLAS GODBOLD	Art Unit 2658	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 *29 March 2017*.

☐ 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) *1,3-9,11-15,18,19,22,24 and 26* 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) *1,3-9,11-15,18,19,22,24 and 26* is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

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

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114 was filed in this application after appeal to the Patent Trial and Appeal Board, but prior to a decision on the appeal. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 29 March 2017 has been entered.

Response to Amendment

3. The amendment filed 29 March 2017 has been accepted and considered in this office action. Claims 1 and 13 have been amended.

Response to Arguments

4. Applicant's arguments with respect to claims 1 and 13 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Claim Rejections - 35 USC § 103

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

6. Claims 1,3, 5-6, 8-9, 11, 13-15, 17-19, 22, 24, 26, 4, 7, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (US PAP US2009/0254778 A1) in view of Hanson (US PAP 2012/01271639) in view of Huang (US PAP US2008/0059193 A1) ("Huang193")

7. Regarding claim 1, Huang teaches a method for configuring a controlling device to command functional operations of a target appliance, the method comprising:

causing a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance, the provisioned codeset record comprising protocol and formatting information and a plurality of individual command function entries wherein each of the plurality of individual function entries within the codeset record comprises command data (paragraph [0152] discloses that the appropriate codeset with command and IR format information is selected to be used to control the selected/target device, i.e. the appropriate codeset is provisioned to enable control of the target/selected device via commands);

causing less than all of the individual command function entries from within the provisioned codeset record to each be matched to one or more of a plurality of user

input elements of the controlling device whereupon a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one or more of the plurality of individual command function entries from within the provisioned codeset record that was mapped to the one of the plurality of user input element activated (paragraph [0180] discloses mapping functions/entries to icons buttons and paragraph [0184] discloses mapping functions/entries to user input elements/hard buttons and further, figure 18 discloses the mapping of a button to command codes from within the codeset); and

causing the controlling device to transmit a command communication by using the protocol and formatting information and the command data of one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a representation of a the function name which corresponds to voice data provided to a speech recognition engine (paragraph [0068] discloses that user input can be speech recognized and used to initiate the action map in figure 18 which shows that user voice input results the transmission of properly formatted IR codes to perform particular command functions entries).

Huang does not specifically teach each of the plurality of individual function entries within the codeset record comprises a standard function identifier, data which comprises a representation of a function name corresponding the standard function identifier, and a plurality of data each of which comprises a representation of a unique one of a plurality of synonyms of the function name, and controlling using… a codeset

record having a representation of a synonym of the function name which corresponds to voice data provided to a speech recognition engine.

In the same field of speech commands, Hanson teaches each of the plurality of individual function entries within the codeset record comprises a standard function identifier, data which comprises a representation of a function name corresponding the standard function identifier, and a plurality of data each of which comprises a representation of a unique one of a plurality of synonyms of the function name (figure 2, command mapping 240, paragraph 0037 each entry provides mapping for main command such as "call" and alternalives or synonyms such as "dial". There may be an arbitrary amount of synonyms stored), and controlling using… a codeset record having a representation of a synonym of the function name which corresponds to voice data provided to a speech recognition engine (0033-37, system can accepted alternative commands).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use synonyms in the command listings as taught by Hanson in the system of Huang in order to allow the user to use alternative wordings to activate a particular command (Hanson 0002-03).

Huang and Hanson fail to teach wherein that the representations of the function names and synonyms are phonetic representations, and controlling using… a codeset record having a phonetic representation of a the function name or a synonym of the function name.

However in the same field of voice controlled devices Huang193 teaches wherein that the representations of the function names and synonyms are phonetic representations (Huang193, paragraph [0024] and figure 2b disclose command function entries that comprise phonetic representation/data 24b and 24c reference generic labels 20b). controlling using … a codeset record having a phonetic representation of a the function name or a synonym of the function name (Huang193, paragraph [0024] and figure 2b disclose command function entries that comprise phonetic representation/data 24b and 24c reference generic labels 20b).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the entries in the codeset of Huang and Hanson to include the default and adaptive phonetic data as taught by Huang193 in order to enhance voice recognition performance through personalization to the specific user (Huang193, paragraphs [0024]).

8. Consider claim 3, Huang teaches the method of configuration of claim 1 and further teaches wherein the controlling device comprises a microphone for receiving voice input used in creating the voice data (Huang, paragraphs [0005] and [0030] disclose that the method of the invention is drawn towards implementing remote configuration on various types of hand-held devices including an extended-functionality phone which obviously possess a microphone for receiving voice input and data).

9. Consider claim 4, Huang teaches the method of configuration of claim 26 and further teaches wherein the controlling device comprises a memory having stored therein the library of codeset records (Huang, figure 5 and paragraph [0114] disclose a User IR Code DB 544 which is stored on the controlling device and contains a library of codesets, i.e. supplemental codes and sets of learned codes).

10. Consider claim 5, Huang teaches the method of configuration of claim 1 and further teaches wherein the controlling device comprises a processing device and instructions for providing the speech recognition engine (Huang, figure 5 discloses a User Input 510 which paragraph [0068] explain can include speech recognition from software resident on the controlling device/PDA).

11. Consider claim 6, the combination of Huang and Huang193 teaches the method of configuration of claim 1 and while a speech recognition engine executing on a computing device remote from the controlling device is not explicitly taught, server-based/off-board/remote speech recognition is well known within the art speech processing, especially for portable devices with restricted processing capabilities. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the onboard speech recognition of Huang with the well-known practice of using an off-board/remotely located or server-based speech recognition since the motivation of such a combination would be well known. Specifically, the motivation for using a computing device remote from the controlling device to execute speech

recognition is to take advantage of more powerful processing available on larger computers/servers in order to enable more accurate speech recognition without consuming excessing power, computing resources and/or physical space on a hand-held/portable device that would otherwise be required for comparable performance.

12. Consider claim 7, Huang teaches the method of configuration of claim 26 and further teaches wherein the library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records (Huang, figure 3 discloses the remote storage of an I R Database/codeset).

13. Consider claim 8, Huang teaches the method of configuration of claim 1 and further teaches wherein the codeset is provisioned to the controlling device by being downloaded thereto (at least Huang, paragraphs [0037], [0039], [0114], [0128], [0152] and [0227] disclose the download of remotely stored codesets to the controlling device).

14. Consider claim 9, Huang teaches the method of configuration of claim 1 and further teaches wherein the method comprises receiving at the speech recognition engine voice data for mapping each of the less than all of the individual command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device. (Huang, paragraph [0128] discloses the reassignment of functions/commands to activatable function keys/user

input elements based on user's input/selection which paragraph Huang [0068] already teaches can be in the form of speech recognized voice data).

15. Consider claim 11, Huang teaches the method of configuration of claim 1 and further teaches using at least location data to identify the codeset record that is caused to be provisioned to the controlling device (Huang, paragraph [0317] discloses the use of a region/location data to present the most likely codeset to the user during the codeset identification and provisioning process to improve usability).

16. Consider claim 12, Huang teaches the method of configuration of claim 26 and further teaches wherein location data is additionally utilized in the process of identifying the codeset record that is caused to be provisioned to the controlling device (Huang paragraph [0317] teaches the use of region/location data in the process of identifying codesets for a target appliance).

17. Consider claim 13, Huang teaches a system for configuring a controlling device to command functional operations of a target appliance, the system comprising:

a processing device having associated instructions stored on a non-transient readable media which instructions, when executed by the processing device, cause a codeset record to be provisioned to the controlling device for use in commanding functional operations of the target appliance wherein the provisioned codeset record comprises protocol and formatting information and a plurality of individual command

function entries wherein each of the plurality of individual function entries within the codeset record comprises command data (in Huang, paragraph [0068] discloses using speech recognition as user input, paragraph [0152] discloses that the appropriate codeset with command and IR format information is selected to be used to control the selected/target device, i.e. the appropriate codeset is provisioned to enable control of the target/selected device via command and paragraphs [0032-0033] disclose that these functions are implemented on software/computer executable on a processing device/PDA);

cause less than all of the individual command codes from within the provisioned codeset record to each be mapped to one or more of a plurality of user input elements of the controlling device wherein a subsequent activation of a one of the plurality of user input elements will cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a corresponding one or more of the plurality of individual command function entries from with the provisioned codeset record that was mapped thereto to the one of the plurality of user input elements activated (paragraph [0180] discloses mapping functions/entries to icons buttons and paragraph [0184] discloses mapping functions/entries to user input elements/hard buttons and further, figure 18 discloses the mapping of a button to command codes from within the codeset), and cause the controlling device to transmit a command communication by using the protocol and formatting information and the command data of a one of the one or more of the plurality of individual command function entries from within the provisioned codeset record having a phonetic

representation of a generic label name which corresponds to voice data provided to a speech recognition engine (paragraph [0068] discloses that user input can be speech recognized and used to initiate the action map in figure 18 which shows that user voice input results the transmission of properly formatted IR codes to perform particular command functions entries).

Huang does not specifically teach each of the plurality of individual function entries within the codeset record comprises a standard function identifier, data which comprises a representation of a function name corresponding the standard function identifier, and a plurality of data each of which comprises a representation of a unique one of a plurality of synonyms of the function name, and controlling using… a codeset record having a representation of a synonym of the function name which corresponds to voice data provided to a speech recognition engine.

In the same field of speech commands, Hanson teaches each of the plurality of individual function entries within the codeset record comprises a standard function identifier, data which comprises a representation of a function name corresponding the standard function identifier, and a plurality of data each of which comprises a representation of a unique one of a plurality of synonyms of the function name (figure 2, command mapping 240, paragraph 0037 each entry provides mapping for main command such as “call” and alternatives or synonyms such as “dial”. There may be an arbitrary amount of synonyms stored), and controlling using… a codeset record having a representation of a synonym of the function name which corresponds to voice data

provided to a speech recognition engine (0033-37, system can accepted alternative commands).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use synonyms in the command listings as taught by Hanson in the system of Huang in order to allow the user to use alternative wordings to activate a particular command (Hanson 0002-03).

Huang and Hanson fail to teach wherein that the representations of the function names and synonyms are phonetic representations, and controlling using… a codeset record having a phonetic representation of a the function name or a synonym of the function name.

However in the same field of voice controlled devices Huang193 teaches wherein that the representations of the function names and synonyms are phonetic representations (Huang193, paragraph [0024] and figure 2b disclose command function entries that comprise phonetic representation/data 24b and 24c reference generic labels 20b). controlling using … a codeset record having a phonetic representation of a the function name or a synonym of the function name (Huang193, paragraph [0024] and figure 2b disclose command function entries that comprise phonetic representation/data 24b and 24c reference generic labels 20b).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the entries in the codeset of Huang and Hanson to include the default and adaptive phonetic data as taught by Huang193 in order to enhance voice

recognition performance through personalization to the specific user (Huang193, paragraphs [0024]).

18. Consider claim 14, Huang teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions are downloaded to the controlling device in a downloadable app (Huang, figure 3 discloses that the PDA software/applications which comprise instruction to implement the remote configuration process are stored/downloaded to the hand-held device).

19. Consider claim 15, Huang teaches the system for configuring a controlling device of claim 14 and further teaches wherein the controlling device comprises one of a smart phone or a tablet computing device (Huang, paragraphs [0005] and [0030] disclose that the method of the invention is drawn towards implementing remote configuration on various types of hand-held controlling devices including an extended-functionality/smart phone and a tablet computing device).

20. Consider claim 17, Huang teaches the system for configuring a controlling device of claim 13 and further teaches wherein the controlling device comprises a memory having stored therein a library of codeset records including the provisioned codeset (Huang, figure 5 discloses a User IR Code DB 544 which is a codeset stored/provisioned in memory on the controlling device).

21. Consider claim 18, Huang teaches the system for configuring a controlling device of claim 13 and further teaches wherein a library of codeset records is stored remotely from the controlling device and the codeset is provisioned to the controlling device from the library of codeset records by being downloaded thereto (Huang, figure 3 discloses the remote storage of an IR Database/codeset for downloading to the controlling device).

22. Consider claim 19, Huang teaches the system for configuring a controlling device of claim 13 and while limitation that the processing device comprises one or more computing devices located remotely from the controlling device is not explicitly taught, server-based/off-board/remote speech recognition engines or processing devices are well known within the art speech processing, especially for portable devices with restricted processing capabilities. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the onboard speech recognition engine of Huang with the well-known practice of using off-board/remotely located speech recognition engines or processing devices since the motivation of such a combination would be well known. Specifically, the motivation for using a computing device remote from the controlling device to execute speech recognition is to take advantage of more powerful processing available on larger computers/servers in order to enable more accurate speech recognition without consuming excessing power, computing resources and/or physical space on a hand-held/portable device that would otherwise be required for comparable performance.

23. Consider claim 22, Huang teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions use voice data received by the speech recognition engine to map each of the less than all of the command function entries from within the provisioned codeset record to the one or more of the plurality of user input elements of the controlling device (Huang, paragraph [0128] discloses the reassignment of functions/commands to activatable function keys/user input elements based on user's input/selection which paragraph [0028] already teaches can be in the form of speech recognized voice data).

24. Consider claim 24, Huang teaches the system for configuring a controlling device of claim 13 and further teaches wherein the instructions additionally use at least location data to identify the codeset that is provisioned to the controlling device (Huang, paragraph [0317] discloses the use of a region/location data to present the most likely codeset to the user during the codeset identification and provisioning process to improve usability).

25. Consider claim 26, Huang teaches the method of configuration of claim 1 further teaches receiving at a speech recognition engine voice data indicative of at least a brand of the target appliance whereupon the speech recognition engine uses the voice data indicative of at least a brand of the target appliance to identify within a library of codeset records the codeset record that is caused to be provisioned to the controlling

device (Huang paragraph [0068] teaches using speech recognition as user input and paragraph [0155] teaches taking/receiving user input indicative of a manufacture/brand to identify a codeset to be provisioned to the controlling device).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DOUGLAS GODBOLD whose telephone number is (571)270-1451. The examiner can normally be reached on Monday-Thursday 7:00am-4:30pm Friday 7:00am-3:30pm.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. 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.

/DOUGLAS GODBOLD/
Primary Examiner, Art Unit 2658

Notice of References Cited	Application/Control No. 13/298,629	Applicant(s)/Patent Under Reexamination LIM, JONATHAN	
	Examiner DOUGLAS GODBOLD	Art Unit 2658	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2009/0112605 A1	04-2009	Gupta; Rakesh	B60R16/0373	704/275
*	B	US-8,219,407 B1	07-2012	Roy; Philippe	G10L15/22	704/255
*	C	US-2012/0271639 A1	10-2012	HANSON; GARY R.	G10L15/06	704/275
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4158	(704/275).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/04/05 11:54
L2	0	L1 and (command near6 multiple near5 (phonetic or phoneme))	US-PGPUB; USPAT	OR	ON	2017/04/05 11:54
L3	6	L1 and (command near6 multiple near5 (model))	US-PGPUB; USPAT	OR	ON	2017/04/05 11:55
L6	3	L1 and (standard near7 synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 12:35
L7	26	L1 and (command near7 synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 12:36
S1	2	(("20080059193") or ("20090254778")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/10/29 10:09
S2	3769	(704/275).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/10/29 13:25
S3	25	S2 and (command near4 synonym)	US-PGPUB; USPAT	OR	ON	2014/10/29 13:25
S4	2	"20090254778"	US-PGPUB; USPAT	OR	OFF	2015/05/18 13:04
S5	3	(("20090254778") or ("20080059193") or ("6748361")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/18 13:05
S6	2	(("20050020208") or ("20090292375")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/06/09 08:41
S7	2	(("20090254778") or ("20080059193")).PN.	US-PGPUB; USPAT	OR	OFF	2017/04/05 09:26
S8	4777	(G10l15/22 or G10L15/223).cpc.	US-PGPUB; USPAT	OR	OFF	2017/04/05 09:43
S9	13	S8 and (phonetic same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 09:46
S10	56	S8 and (phonetic) and (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 09:49
S11	19	S8 and (phoneme) and (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 09:55
S12	0	S8 and (acoustic near10 dictionary) and (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:17
S13	55	S8 and (pronunc$6) and (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:18
S14	4	S8 and (command same synonym same acoustic$4)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:26
S15	4158	(704/275).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/04/05 10:31

S16	13	S15 and (phoneme) and (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:31
S17	3	S15 and (acoustic$4) same (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:35
S18	0	S15 and (command same synonym near5 model)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:36
S19	1	S15 and (command same synonym near5 pronunc$7)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:36
S20	1	S15 and (command near6 alternative near5 (phonetic or phoneme))	US-PGPUB; USPAT	OR	ON	2017/04/05 10:37

EAST Search History (Interference)

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4/5/2017 3:02:16 PM
C:\Users\dgodbold\Documents\EAST\Workspaces\13298629.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	Art Unit
	ERNEST ESTES	2658

CPC- SEARCHED		
Symbol	Date	Examiner
G10L21/00	3/31/2014	EE
G10L15/265	3/31/2014	EE
G10L21/00; G10L15/265	7/3/2014	EE

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
704	231, 270, 275	9/24/2013	EE
340	12.22, 12.23, 12.28	9/27/2013	EE
348	734	9/27/2013	EE
704	231, 270, 275	3/31/2014	EE
340	12.22, 12.23, 12.28	3/31/2014	EE
348	734	3/31/2014	EE
704	231, 270, 275	7/3/2014	EE
340	12.22, 12.23, 12.28	7/3/2014	EE
348	734	7/3/2014	EE

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search	9/24/2013	EE
GoogleScholar NPL search	9/24/2013	EE
Keyword text search and keyword w/ date and/or class/subclass	9/24/2013	EE
Consulted primary D. Godbold	9/27/2013	EE
Consulted SPE R. Dorvil on final	3/26/2014	EE
Updated EAST and GoogleScholar searches	3/30/2014	EE
Updated EAST and GoogleScholar searches	7/3/2014	EE
Consulted Primary D. Godbold	7/1/2014	EE

/ERNEST ESTES/ Examiner.Art Unit 2658	

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
update search	10/29/2014	DCG
update search	4/5/2017	DCG

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

/ERNEST ESTES/ Examiner.Art Unit 2658	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	Art Unit
	DOUGLAS GODBOLD	2658

✓	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	09/24/2013	03/31/2014	07/03/2014	10/29/2014	05/18/2015	04/05/2017			
	1	✓	✓	✓	✓	A	✓			
	2	✓	✓	-	-	-	-			
	3	✓	✓	✓	✓	A	✓			
	4	✓	✓	✓	✓	A	✓			
	5	✓	✓	✓	✓	A	✓			
	6	✓	✓	✓	✓	A	✓			
	7	✓	✓	✓	✓	A	✓			
	8	✓	✓	✓	✓	A	✓			
	9	✓	✓	✓	✓	A	✓			
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	25	✓	✓	-	-	-	-			
	26			✓	✓	A	✓			

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Courtesy Reminder for
Application Serial No: 13/298,629

Attorney Docket No: 81230.156US1
Customer Number: 34018
Date of Electronic Notification: 04/24/2017

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lim	) Examiner:	Godbold, Douglas
		)	
Application No.:	13/298,629	) Attny Doc.:	81230.156US1
		)	
Filing Date:	November 17, 2011	) Art Unit:	2658
		)	
Title:	System And Method For Voice Activated Configuration of a Controlling Device	)	

RESPONSE

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

Dear Sir:

In response to the Office Action dated April 24, 2017, please consider the Remarks which begin on page 2 of this paper.

The Commissioner is authorized to charge any fee deficiency to deposit account number 50-2428 in the name of Greenberg Traurig, LLP.

Certificate of Electronic Transmission: I hereby certify that this document and its attachments are being electronically transmitted to the U.S. Patent and Trademark Office via EFS-Web on this 21st day of July, 2017.

/Gladys Negron-Munoz/
Gladys Negron-Munoz

CHI 68417469v1

REMARKS

In the application claims 1, 3-9, 11-15, 17-19, 22, 24, and 26 remain pending. Claims 2, 10, 16, 20, 21, 23, and 25 have been cancelled without prejudice.

Independent claims 1 and 13 stand rejected under 35 U.S.C. § 103 as being rendered obvious by Huang (U.S. 2009/0254778) in view of Haung '193 (U.S. 2008/0059193) in further view of Hanson (U.S. 2012/0271639).

It is has been acknowledged that Huang and Huang '193 do not disclose, teach, or suggest each of a plurality of individual function entries within a codeset record comprising command data, a standard function identifier, data which comprises a phonetic representation of a function name corresponding the standard function identifier, and a plurality of data each of which comprises a phonetic representation of a unique one of a plurality of synonyms of the function name.

Turning now to Hanson, it is respectfully submitted that Hanson does not disclose, teach, or suggest a plurality of individual function entries within a codeset record, i.e., a record in which command data as well as protocol and formatting information for use in generating an appliance command communication is stored, wherein each of the plurality of individual function entries within the codeset record comprises a standard function identifier, a phonetic representation of a function name corresponding to the standard function identifier, and a plurality of data each of which comprises a phonetic representation of a unique one of a plurality of synonyms of the function name. Accordingly, it is respectfully submitted that Hanson cannot be said to suggest modifying Huang and/or Huang '193 to use synonyms in a codeset record in order *to activate a particular command* as asserted and relied upon in rejecting the claims at issue.

More particularly, it is respectfully submitted that, in Hanson, the relied upon command mapping 240 is not provided to activate a particular command. Rather, the relied

upon command mapping 240 disclosed in Hanson is intended to be used to provide speech data 230 to an application 252 such that a speech command *can be enunciated to a user to thereby assist a user in discovering/learning the command.* (¶ 0022). In Hanson, the system uses a function ID or a command ID 232 (which is received by the system *in response to a manual event being performed*) only to look up command data 246 within the command mapping 240 whereupon the command data 246 is conveyed as speech data 230 to an application 252 *for presentation to a user* via use of speech interface 256. (¶¶ 0026, 0029, and 0030).

Accordingly, because Hanson discloses using command data, which is extracted from a command mapping *in response to a user activating a physical control on a device* (¶¶ 0017 and 0019), with the command data then being used merely *to inform a user* of a speech command via use of a speech interface (¶ 0022), it is respectfully submitted that nothing within Hanson would suggest to one of skill in the art that Huang and/or Huang '193 should or could be modified to use synonyms in a command record which is to be accessed for the purpose of issuing commands to a controllable device as claimed. That Hanson would not suggest any such modification is particularly evidenced by the fact that Hanson discloses accessing the cited to command mapping *after a user has already manually caused a command to be issued to the system to perform a function.* (¶ 0008). For at least these reasons, it is respectfully submitted that the rejection of the claims under 35 U.S.C. §103 based upon the combination of Huang, Huang '193, and Hanson must be withdrawn.

Respectfully Submitted;

/Gary Jarosik/

Date: July 21, 2017

By: Gary R. Jarosik, Reg. No. 35,906
Greenberg Traurig, LLP
77 West Wacker Drive, Suite 3100
Chicago, Illinois 60601
(312) 456-8449

Electronic Acknowledgement Receipt

EFS ID:	29859118
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Gladys Negron-Munoz
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	21-JUL-2017
Filing Date:	17-NOV-2011
Time Stamp:	16:33:54
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	TransmittalForm_13298629.pdf	188665 0730b970a4c384189ebadd8fd13c26a6703aae81	no	2
Warnings:					

Information:					
2		RespOA_13298629_uei_156us1.pdf	120885 41ea752b7ca05de8d41641bea222f1d533d63e6a	yes	3

	Multipart Description/PDF files in .zip description		
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	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Applicant Arguments/Remarks Made in an Amendment	2	3

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

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

New International Application Filed with the USPTO as a Receiving Office

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	13/298,629
Filing Date	11/17/2011
First Named Inventor	Jonathan Lim
Art Unit	2658
Examiner Name	Godbold, Douglas
Attorney Docket Number	81230.156US1

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☑ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
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- ☐ Power of Attorney, Revocation Change of Correspondence Address
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- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Greenberg Traurig, LLP - Customer No. 34018		
Signature	/Gary R. Jarosik/		
Printed name	Gary R. Jarosik		
Date	July 21, 2017	Reg. No.	35,906

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Signature	/Gladys Negron-Munoz/		
Typed or printed name	Gladys Negron-Munoz	Date	July 21, 2017

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 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, 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.

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

34018 7590 08/14/2017

Ring
c/o Greenberg Traurig, LLP
77 W. Wacker Drive
Suite 3100
CHICAGO, IL 60601-1732

EXAMINER
GODBOLD, DOUGLAS

ART UNIT	PAPER NUMBER
2658	

DATE MAILED: 08/14/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

TITLE OF INVENTION: SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	11/14/2017

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.

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)

34018 7590 08/14/2017

Ring
c/o Greenberg Traurig, LLP
77 W. Wacker Drive
Suite 3100
CHICAGO, IL 60601-1732

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.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

TITLE OF INVENTION: SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	11/14/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
GODBOLD, DOUGLAS	2658	704-275000

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. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE

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34018 7590 08/14/2017

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CHICAGO, IL 60601-1732

EXAMINER	
GODBOLD, DOUGLAS	
ART UNIT	PAPER NUMBER
2658	

DATE MAILED: 08/14/2017

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 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.
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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public 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. 13/298,629	Applicant(s) LIM, JONATHAN	
	Examiner DOUGLAS GODBOLD	Art Unit 2658	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 *amendment filed 21 July 2017*.
   ☐ 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, 3-9, 11-19, 22, 24, and 26*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

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

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

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

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

/DOUGLAS GODBOLD/
Primary Examiner, Art Unit 2658

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

DETAILED ACTION

2. This Office Action is in response to correspondence filed 21 July 2017 in reference to application 13/298,629. Claims 1, 3-9, 11-19, 22, 24, and 26 are pending and have been examined.

Response to Amendment

3. The amendment filed 21 July 2017 has been accepted and considered in this office action. Claims 1 and 13 have been amended.

Response to Arguments

4. Applicant's arguments, see Remarks, filed 21 July 2017, with respect to the claims have been fully considered and are persuasive. The rejection of the claims has been withdrawn.

Allowable Subject Matter

5. Claims 1, 3-9, 11-19, 22, 24, and 26 are allowed. The following is an examiner's statement of reasons for allowance:

6. Consider claim 1, the prior art of record does not disclose, teach, or suggest "a plurality of individual function entries within a codeset record, i.e., a record in which command data as well as protocol and formatting information for use in generating an

appliance command communication is stored, wherein each of the plurality of individual function entries within the codeset record comprises a standard function identifier, a phonetic representation of a function name corresponding to the standard function identifier, and a plurality of data each of which comprises a phonetic representation of a unique one of a plurality of synonyms of the function name". More particularly in Hanson, the command mapping 240 is not provided to activate a particular command. Rather, the command mapping 240 disclosed in Hanson is intended to be used to provide speech data 230 to an application 252 such that a speech command can be enunciated to a user to thereby assist a user in discovering/learning the command. (¶ 0022). In Hanson, the system uses a function ID or a command ID 232 (which is received by the system in response to a manual event being performed) only to look up command data 246 within the command mapping 240 whereupon the command data 246 is conveyed as speech data 230 to an application 252 for presentation to a user via use of speech interface 256. (¶¶ 0026, 0029, and 0030). Therefore claim 1 is allowable as these limitations are not taught when combined with each and every other limitation of the claim.

7. Claim 13 contains similar subject matter as claim 1 and therefore is allowable as well.

8. Claims 3-9, 11-12, 14-19, 22, 24, and 26 depend on and further limit claims 1 and 13 and therefore are allowable as well.

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."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DOUGLAS GODBOLD whose telephone number is (571)270-1451. The examiner can normally be reached on Monday-Thursday 7:00am-4:30pm Friday 7:00am-3:30pm.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. 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.

/DOUGLAS GODBOLD/
Primary Examiner, Art Unit 2658

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	Art Unit
	ERNEST ESTES	2658

CPC- SEARCHED		
Symbol	Date	Examiner
G10L21/00	3/31/2014	EE
G10L15/265	3/31/2014	EE
G10L21/00; G10L15/265	7/3/2014	EE

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
704	231, 270, 275	9/24/2013	EE
340	12.22, 12.23, 12.28	9/27/2013	EE
348	734	9/27/2013	EE
704	231, 270, 275	3/31/2014	EE
340	12.22, 12.23, 12.28	3/31/2014	EE
348	734	3/31/2014	EE
704	231, 270, 275	7/3/2014	EE
340	12.22, 12.23, 12.28	7/3/2014	EE
348	734	7/3/2014	EE

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

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search	9/24/2013	EE
GoogleScholar NPL search	9/24/2013	EE
Keyword text search and keyword w/ date and/or class/subclass	9/24/2013	EE
Consulted primary D. Godbold	9/27/2013	EE
Consulted SPE R. Dorvil on final	3/26/2014	EE

/ERNEST ESTES/ Examiner.Art Unit 2658	

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
Updated EAST and GoogleScholar searches	3/30/2014	EE
Updated EAST and GoogleScholar searches	7/3/2014	EE
Consulted Primary D. Godbold	7/1/2014	EE
update search	10/29/2014	DCG
update search	4/5/2017	DCG
update search	7/27/2017	DCG

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
G10L21/00		7/27/2017	DCG
G10L15/22		7/27/2017	DCG

/ERNEST ESTES/ Examiner.Art Unit 2658	

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	**Art Unit**
	DOUGLAS GODBOLD	2658

CPC						
Symbol					**Type**	**Version**
G10L		15	/	22	F	2013-01-01
G10L		2015	/	228	A	2013-01-01
G10L		2015	/	025	A	2013-01-01
H04N		21	/	42222	I	2013-01-01
H04N		2005	/	4425	A	2013-01-01
H04N		2005	/	4428	A	2013-01-01
H04N		2005	/	4432	A	2013-01-01
H04N		21	/	42207	A	2013-01-01
H04N		21	/	4222	I	2013-01-01
H04N		21	/	42226	I	2013-01-01
H04N		21	/	435	I	2013-01-01
H04N		21	/	43615	A	2013-01-01
H04N		21	/	8186	I	2013-01-01
G08C		2201	/	21	A	2013-01-01
G08C		2201	/	31	A	2013-01-01

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

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	19	
/DOUGLAS GODBOLD/ Primary Examiner.Art Unit 2658	07/27/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7b

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	**Art Unit**
	DOUGLAS GODBOLD	2658

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
		G	1	0	L	15 / 22 (2006.01.01)						
CROSS REFERENCE(S)												
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	19	
/DOUGLAS GODBOLD/ Primary Examiner.Art Unit 2658	07/27/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7b

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	**Art Unit**
	DOUGLAS GODBOLD	2658

☐ 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	1	15	17												
	2	16	18												
2	3	17	19												
9	4		20												
3	5	18	21												
4	6		22												
10	7	19	23												
5	8		24												
6	9	8	25												
	10		26												
7	11														
11	12														
12	13														
13	14														
14	15														
	16														

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	19	
/DOUGLAS GODBOLD/ Primary Examiner.Art Unit 2658	07/27/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7b

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	0	("l1and(codesetadjrecordnear10fucntionnear2namenear4phonetic).clm.").PN.	US-PGPUB; USPAT	OR	OFF	2017/07/27 11:43
S1	2	(("20080059193") or ("20090254778")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/10/29 10:09
S2	3769	(704/275).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/10/29 13:25
S3	25	S2 and (command near4 synonym)	US-PGPUB; USPAT	OR	ON	2014/10/29 13:25
S4	2	"20090254778"	US-PGPUB; USPAT	OR	OFF	2015/05/18 13:04
S5	3	(("20090254778") or ("20080059193") or ("6748361")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/18 13:05
S6	2	(("20050020208") or ("20090292375")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/06/09 08:41
S7	2	(("20090254778") or ("20080059193")).PN.	US-PGPUB; USPAT	OR	OFF	2017/04/05 09:26
S8	4777	(G10l15/22 or G10L15/223).cpc.	US-PGPUB; USPAT	OR	OFF	2017/04/05 09:43
S9	13	S8 and (phonetic same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 09:46
S10	56	S8 and (phonetic) and (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 09:49
S11	19	S8 and (phoneme) and (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 09:55
S12	0	S8 and (acoustic near10 dictionary) and (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:17
S13	55	S8 and (pronunc$6) and (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:18
S14	4	S8 and (command same synonym same acoustic$4)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:26
S15	4158	(704/275).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/04/05 10:31
S16	13	S15 and (phoneme) and (command same synonym)	US-	OR	ON	2017/04/05

			PGPUB; USPAT			10:31
S17	3	S15 and (acoustic$4) same (command same synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:35
S18	0	S15 and (command same synonym near5 model)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:36
S19	1	S15 and (command same synonym near5 pronunc$7)	US-PGPUB; USPAT	OR	ON	2017/04/05 10:36
S20	1	S15 and (command near6 alternative near5 (phonetic or phoneme))	US-PGPUB; USPAT	OR	ON	2017/04/05 10:37
S21	4158	(704/275).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/04/05 11:54
S22	0	S21 and (command near6 multiple near5 (phonetic or phoneme))	US-PGPUB; USPAT	OR	ON	2017/04/05 11:54
S23	6	S21 and (command near6 multiple near5 (model))	US-PGPUB; USPAT	OR	ON	2017/04/05 11:55
S24	3	S21 and (standard near7 synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 12:35
S25	26	S21 and (command near7 synonym)	US-PGPUB; USPAT	OR	ON	2017/04/05 12:36

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2129	(G10l15/22 or G10L15/223).cpc.	USPAT	OR	OFF	2017/07/27 11:42
L3	0	l1 and (codeset adj record near10 fucntion near2 name near4 phonetic).clm.	USPAT	OR	OFF	2017/07/27 11:43

7/27/2017 11:43:40 AM
C:\Users\dgodbold\Documents\EAST\Workspaces\13298629.wsp

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13298629	LIM, JONATHAN
	Examiner	**Art Unit**
	DOUGLAS GODBOLD	2658

✓	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	09/24/2013	03/31/2014	07/03/2014	10/29/2014	05/18/2015	04/05/2017	07/27/2017		
1	1	✓	✓	✓	✓	A	✓	=		
	2	✓	✓	-	-	-	-	-		
2	3	✓	✓	✓	✓	A	✓	=		
9	4	✓	✓	✓	✓	A	✓	=		
3	5	✓	✓	✓	✓	A	✓	=		
4	6	✓	✓	✓	✓	A	✓	=		
10	7	✓	✓	✓	✓	A	✓	=		
5	8	✓	✓	✓	✓	A	✓	=		
6	9	✓	✓	✓	✓	A	✓	=		
	10	✓	-	-	-	-	-	-		
7	11	✓	✓	✓	✓	A	✓	=		
11	12	✓	✓	✓	✓	A	✓	=		
12	13	✓	✓	✓	✓	A	✓	=		
13	14	✓	✓	✓	✓	A	✓	=		
14	15	✓	✓	✓	✓	A	✓	=		
	16	✓	✓	-	-	-	-	-		
15	17	✓	✓	✓	✓	A	✓	=		
16	18	✓	✓	✓	✓	A	✓	=		
17	19	✓	✓	✓	✓	A	✓	=		
	20	✓	✓	-	-	-	-	-		
	21	✓	✓	-	-	-	-	-		
18	22	✓	✓	✓	✓	A	✓	=		
	23	✓	-	-	-	-	-	-		
19	24	✓	✓	✓	✓	A	✓	=		
	25	✓	✓	-	-	-	-	-		
8	26			✓	✓	A	✓	=		

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Greenberg Traurig, LLP
77 W. Wacker Drive
Suite 3100
CHICAGO, IL 60601-1732

Courtesy Reminder for
Application Serial No: 13/298,629

Attorney Docket No: 81230.156US1
Customer Number: 34018
Date of Electronic Notification: 08/14/2017

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:

chiipmail@gtlaw.com
escobedot@gtlaw.com
jarosikg@gtlaw.com

To view your correspondence online or update your email addresses, please visit us anytime at **https://sportal.uspto.gov/secure/myportal/privatepair.** If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

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)

34018 7590 08/14/2017

Ring
c/o Greenberg Traurig, LLP
77 W. Wacker Drive
Suite 3100
CHICAGO, IL 60601-1732

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.

Cynthia Tapia	(Depositor's name)
/Cynthia Tapia/	(Signature)
November 13, 2017	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	11/17/2011	Jonathan Lim	81230.156US1	2127

TITLE OF INVENTION: SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	11/14/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
GODBOLD, DOUGLAS	2658	704-275000

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 Greenberg Traurig, 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: Universal Electronics Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Santa Ana, 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

☐ 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 50-2428 (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 /Gary R. Jarosik/ Date November 13, 2017

Typed or printed name Gary R. Jarosik Registration No. 35,906

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Electronic Patent Application Fee Transmittal

Application Number:	13298629
Filing Date:	17-Nov-2011
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Filer:	Gary R. Jarosik/Cynthia Tapia
Attorney Docket Number:	81230.156US1

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:	30924850
Application Number:	13298629
International Application Number:	
Confirmation Number:	2127
Title of Invention:	SYSTEM AND METHOD FOR VOICE ACTUATED CONFIGURATION OF A CONTROLLING DEVICE
First Named Inventor/Applicant Name:	Jonathan Lim
Customer Number:	34018
Filer:	Gary R. Jarosik/Cynthia Tapia
Filer Authorized By:	Gary R. Jarosik
Attorney Docket Number:	81230.156US1
Receipt Date:	13-NOV-2017
Filing Date:	17-NOV-2011
Time Stamp:	10:19:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$960
RAM confirmation Number	111317INTEFSW00020430502428
Deposit Account	
Authorized User	
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)	81230_156US1IssueFeeTrans.pdf	111730 e6d2c8702a5850e79bc4a26835cc05ca8d30d468	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30654 b548af36549b3221e0d29a79db714ba1b62f714b	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	142384		

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
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/298,629	12/19/2017	9847083	81230.156US1	2127

34018 7590 11/29/2017

Greenberg Traurig, LLP
77 W. Wacker Drive
Suite 3100
CHICAGO, IL 60601-1732

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 259 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):

Jonathan Lim, Cypress, CA;

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