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CONFIRMATION NO. 6670

FILING RECEIPT



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11336
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Date Mailed: 01/15/2014

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If Required, Foreign Filing License Granted: 01/13/2014

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/924,240**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

INFORMATION CONCENTRATING CENTER CAPABLE OF MAKING P2P CONNECTIONS WITH
REMOTE CLIENT DEVICES

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

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Provisional Application for Patent Cover Sheet

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)

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

INFORMATION CONCENTRATING CENTER CAPABLE OF MAKING P2P CONNECTIONS WITH REMOTE CLIENT DEVICES

Attorney Docket Number (if applicable)

6121.007.PPA

Correspondence Address

Direct all correspondence to (select one):

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Customer Number

11336

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.☐ Yes, the name of the U.S. Government agency and the Government contract number are:

Entity Status

Applicant claims small entity status under 37 CFR 1.27

☒ Yes, applicant qualifies for small entity status under 37 CFR 1.27☐ No**Warning**

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Signature

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Signature	/Min-Lee Teng/			Date (YYYY-MM-DD)	2014-01-06
First Name	Min-Lee	Last Name	Teng	Registration Number (If appropriate)	65623

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ABSTRACT

Present invention discloses a way to set up the connection from the remote device to the Information Concentrating Center through the internet by establishing a P2P (point to point) connection from the remote device to the Information Concentrating Center. By using a P2P connection between the remote device and the Information Concentrating Center, bidirectional communication can be established for not only accessing services such as streaming video conferences or inspecting statuses of appliances at home provided by the Information Concentrating Center, but also sending control information, such as switching TV channels, from the remote device to the Information Concentrating Center.

INFORMATION CONCENTRATING CENTER CAPABLE OF MAKING P2P CONNECTIONS WITH REMOTE CLIENT DEVICES

CROSS REFERENCE TO RELATED APPLICATIONS

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This application is related to U.S. patent application No. 13/293,506, filed Nov. 8, 2011, and titled "REMOTE INFORMATION COMMUNICATION SYSTEM AND LINKING METHOD THEREOF," and U.S. patent application No. 13/950,281, filed July. 25, 2013, and titled "SYSTEM AND METHOD OF IDENTIFYING NETWORKED DEVICE FOR
10 ESTABLISHING A P2P CONNECTION," each of which is incorporated by reference in their entirety and is made a part of the specification herein.

BACKGROUND OF THE INVENTION

15 Conventionally, a set top box is used to connect with a television to watch TV programs which are sent through satellite or cable. The set top box can be viewed as an information concentrating center in which varieties of information can be concentrated, and information, such as video and audio, can then be delivered to a device, such as a TV for viewing. However, it is
20 quite complex to connect a remote device with the set top box through the Internet. Therefore, what is needed is an effective and efficient way to connect the set top box through the internet.

SUMMARY OF THE INVENTION

25

One object of the present invention is to provide an effective and efficient way to

connect an information concentrating center through the internet by using a P2P connection.

Present invention discloses a way to set up the connection from the remote device to the Information Concentrating Center through the internet by establishing a P2P (point to point) connection from the remote device to the Information Concentrating Center. By using a P2P connection between the remote device and the Information Concentrating Center, bidirectional communication can be established for not only accessing services such as streaming video conferences or inspecting statuses of appliances at home provided by the Information Concentrating Center, but also sending control information, such as switching TV channels, from the remote device to the Information Concentrating Center.

In one embodiment, an information concentrating center, comprising: at least one module for concentrating information from at least one information source; and at least one module connected to a routing device, for establishing a P2P connection with a remote client device through Internet, wherein at least one portion of the information is delivered to the remote device on the P2P connection. In one embodiment, the at least one information source includes a satellite feed and/or a cable feed.

In one embodiment, the information concentrating center has a unique identification (UID) for allowing the remote client device to establish the P2P connection, wherein the unique identification is registered in a linking server and the P2P connection is established through the linking server.

BRIEF DESCRIPTION OF THE DRAWINGS

The foregoing aspects and many of the accompanying advantages of this invention will become more readily appreciated as the same becomes better understood by reference to the following detailed description, when taken in conjunction with the accompanying drawings, wherein:

5

Fig.1 illustrates a schematic of a system of connecting an information concentrating center to a remote device through the Internet by using a P2P connection according to one embodiment of present invention;

10 Fig.2 illustrates a schematic of a system of connecting a set top box to a remote device through the Internet by using a P2P connection according to one embodiment of present invention; and

Fig.3 illustrates a schematic of a system for establishing a P2P connection
15 by using a Unique Identification associated with the set top box and a linking server.

DETAILED DESCRIPTION OF THE INVENTION

20 The detailed explanation of the present invention is described as following. The described preferred embodiments are presented for purposes of illustrations and description, and they are not intended to limit the scope of the present invention.

The present invention pertains to integration of an Information Concentrating Center with
25 P2P technology such that a remote device can establish a P2P connection with the Information Concentrating Center for obtaining the services provided by the Information Concentrating

Center.

Conventionally, when a remote device tries to connect with an Information Concentrating Center at home through Internet, very complex procedures including DDNS (Dynamic DNS) and port mapping are used to set up the connection from the remote device to the Information Concentrating Center. Nowadays, UPnP Port forwarding technology can simplify the setup of the connection from the remote device to the Information Concentrating Center; however, the UPnP Port forwarding technology has security concerns and operating issues when multi-level routers are present in the path from the remote device to the Information Concentrating Center.

Conventionally, VoD (Video on demand) technology uses centralized servers for storing the contents, such as video/audio information, so that users can watch varieties of the contents through the Internet at different places. However, the VoD technology has some disadvantages such as bandwidth limitation associated with the servers and high costs for implementing the centralized servers. In addition, the operators of the VoD need to pay considerable license fees for the contents. By using a P2P connection between the remote device and the Information Concentrating Center, users can still watch varieties of content through the Internet at different places in a distributed manner to resolve bandwidth issues associated with the centralized servers. In addition, the bandwidth and the hardware requirements are significantly lower than the VoD technology, and the cost of the bandwidth and the hardware will be paid by each user.

In order to resolve the above-mentioned connection setup issues from remote devices to the Information Concentrating Center through the internet, present invention discloses a way to set up the connection from the remote device to the Information Concentrating Center through

the internet by establishing a P2P (point to point) connection from the remote device to the Information Concentrating Center. By using a P2P connection between the remote device and the Information Concentrating Center, bidirectional communication can be established for not only accessing services such as streaming video conferences or inspecting statuses of appliances at home provided by the Information Concentrating Center, but also sending control information, such as switching TV channels, from the remote device to the Information Concentrating Center.

As shown in Fig 1, the Information Source can be any source that provides information. For example, the Information Source can be TV programs sent through satellite or a cable. A local client device, such as a TV, can be connected to the Information Concentrating Center. In addition, digital information, such as HDTV, can be transmitted from the Information Concentrating Center through a router or a home network to another local client device, such as a TV, a mobile phone, tablet, notebook or PC. For example, a user can use a mobile phone to receive a TV program through the router and wireless signals, such as WIFI, even in a backyard of a home. In addition, a Remote Client device, such as a mobile phone, can connect with the Information Concentrating Center through the router and the Internet while the user is away from home, for example, when the user is on a trip away from home. In one embodiment, the information source includes at least one source that delivers the information to the Information Concentrating Center without using the internet, for example, a satellite feed or a cable feed. In one embodiment, the information concentrating center comprises a formatting module to format the information in a way suitable for viewing by the remote device.

In one embodiment, Fig 2 illustrates an example for connecting plurality of devices to the information concentrating center such as a set top box, wherein a remote device such as a

mobile phone, PAD, notebook or other electronic device can connect to the set top box by using a P2P connection through the Internet. At home, some appliances can be connected to the set top box through a router so that the remote device can check the status of the appliances or send commands to the set top box in order to control the appliances. In addition,
5 a mobile phone, PAD, notebook or other electronic devices can view the TV programs at home through the router using either wire line or wireless transmission methods.

As described in U.S. patent application No. 13/293,506 and U.S. patent application No.
10 13/950,281, a home device such as the Information Concentrating Center can register its UID (Unique Identification) into a linking server, and a remote client device can then communicate with the linking server to establish a P2P connection from the remote client device to the Information Concentrating Center. As long as the remote client device has the information of the UID of the Information Concentrating Center device, the remote client device can contact
15 the linking server to make a P2P connection to the Information Concentrating Center.

FIG. 3 illustrates a linking server connected to the internet for establishing the P2P connection between the information concentrating center such as a set top box and the remote device. The set top box has a UID module which can communicate with the linking server
20 directly or through an administration server to obtain the address of the linking server first so that the linking server can be contacted by the set top box for registering a Unique Identification (UID) of the set top box in the linking server. Afterwards, the remote device such as a mobile phone can communicate with the linking server directly or through the administration server to obtain the address of the linking server first so that the linking server
25 can be contacted by the remote device for establishing the P2P connection between the set top box and the remote device. The P2P connection can be set up quickly in this way without

complex procedures. In addition, the bandwidth of the P2P connection is scalable due to the fact that each home user can establish a P2P connection to his/her own set top box separately without having bandwidth issues associated with VoD technology.

5 As described in U.S. patent application No. 13/293,506 and U.S. patent application No. 13/950,281, in one embodiment, an image sensor can be used to generate an image of a pattern, such as a one dimensional Bar Code or a QR code, for inputting the UID of the Information Concentrating Center, to establish a P2P connection from a remote client device to the Information Concentrating Center.

10

 Please note that all the descriptions, in U.S. patent application No. 13/293,506 and U.S. patent application No. 13/950,281, can be integrated in whole or in part with the information Concentrating Center for establishing a P2P connection with a remote client device, such as a mobile phone, notebook, PC PAD, or other suitable electronic devices.

15

 Please note that there are many ways to establish P2P connections between the information Concentrating Center and a remote device through the Internet, and present invention is not limited to the ways of establishing the P2P connections, as long as a P2P connection is used for connecting the information Concentrating Center and a remote device.

20

 The foregoing descriptions of specific embodiments of the present invention have been presented for purposes of illustrations and description. They are not intended to be exclusive or to limit the invention to the precise forms disclosed, and obviously many modifications and variations are possible in light of the above teaching. The embodiments were chosen and described in order to best explain the principles of the invention and its practical application,
25 to thereby enable others skilled in the art to best utilize the invention and various

embodiments with various modifications as are suited to particular use contemplated. It is intended that the scope of the invention be defined by the claims appended hereto and their equivalents.

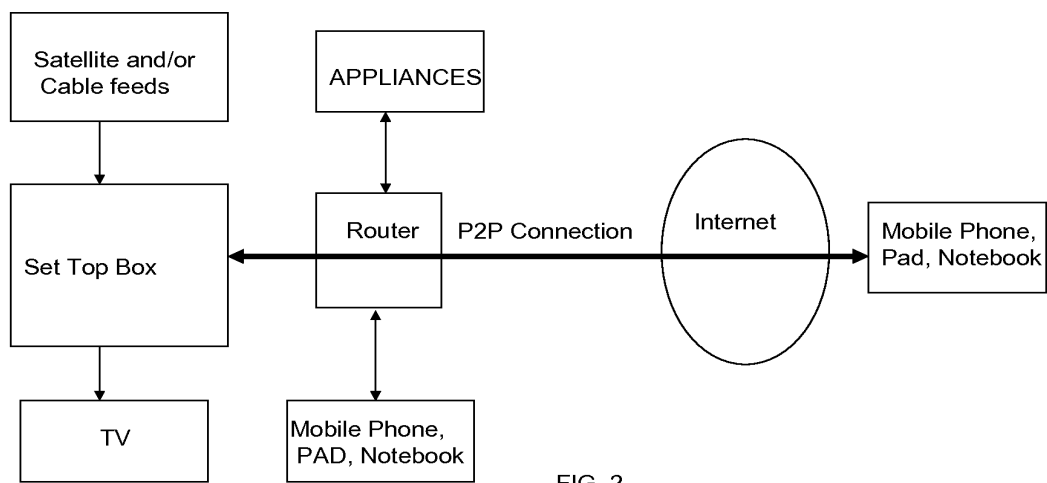
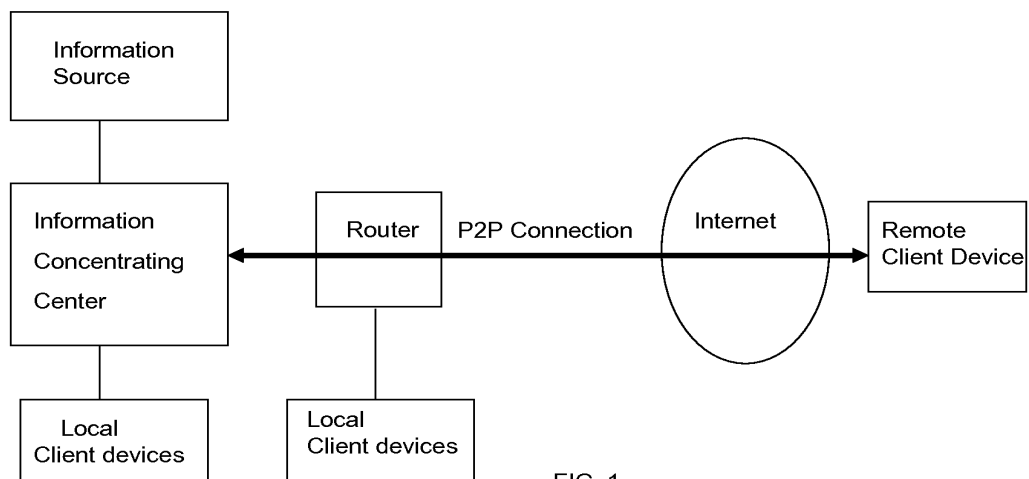
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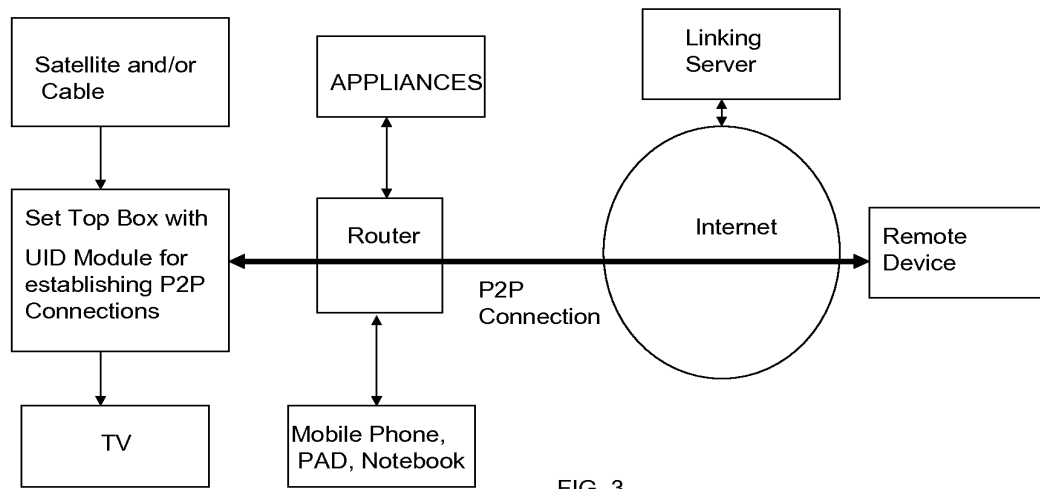


FIG. 3

What is claimed is:

1. An information concentrating center, comprising:

at least one module for concentrating information from at least one information source;

and

5 at least one module connected to a routing device, for establishing a P2P connection with a remote client device through Internet, wherein at least one portion of the information is delivered to the remote device on the P2P connection.

2. The information concentrating center according to claim 1, wherein the information

10 concentrating center is a set top box.

3. The information concentrating center according to claim 1, wherein the remote client is a portable electronic device.

15 4. The information concentrating center according to claim 1, wherein the remote client is a mobile phone.

5. The information concentrating center according to claim 1, wherein the information concentrating center has a unique identification (UID) for allowing the remote client device
20 to establish the P2P connection, wherein the unique identification is registered in a linking server and the P2P connection is established through the linking server.

6. The information concentrating center according to claim 1, wherein the routing device is an IP router.

25

7. The information concentrating center according to claim 1, wherein the information source

is a satellite feed and the information comprises TV programs.

8. The information concentrating center according to claim 1, wherein the information source is a cable feed and the information comprises TV programs.

5

9. The information concentrating center according to claim 7, wherein the remote device sends commands to the information concentrating center to switch TV channel of the TV programs.

10 10. The information concentrating center according to claim 8, wherein the remote device sends commands to the information concentrating center to switch TV channel of the TV programs.

11. The information concentrating center according to claim 1, wherein the at least one
15 information source includes both a satellite feed and a cable feed.

12. The information concentrating center according to claim 7, wherein the information concentrating center is connected to an appliance through the routing device and the remote device controls the appliance through the information concentrating center.

20

13 The information concentrating center according to claim 8, wherein the information concentrating center is connected to an appliance through the routing device and the remote device controls the appliance through the information concentrating center.

25 14 The information concentrating center according to claim 11, wherein the information concentrating center is connected to an appliance through the routing device and the remote

device controls the appliance through the information concentrating center.

15. The information concentrating center according to claim 1, wherein the routing device has
a wireless access point for connecting to a portable electronic device so as to deliver the
5 information to the portable electronic device.

16. The information concentrating center according to claim 1, wherein the at least one
information source delivers the information without using the internet.

10 17. The information concentrating center according to claim 1, further comprising a
formatting module to format the information in a way suitable for viewing by the remote
device.

15

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Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		INFORMATION CONCENTRATING CENTER CAPABLE OF MAKING P2P CONNECTIONS WITH REMOTE CLIENT DEVICES		
First Named Inventor/Applicant Name:		CHI-MING KUO		
Filer:		Min-Lee Teng		
Attorney Docket Number:		6121.007.PPA		
Filed as Small Entity				
Provisional Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Provisional Application Filing Fee	2005	1	130	130
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(\$)
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Total in USD (\$)				130

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Application Number:	61924240
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Confirmation Number:	6670
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First Named Inventor/Applicant Name:	CHI-MING KUO
Customer Number:	11336
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Warnings:					
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5	Claims	6121_007_PPA_CLAIMS.pdf	62741	no	3
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Information:					
Total Files Size (in bytes):			2422791		

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

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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.