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(54) Title: SYSTEM AND METHOD FOR REMOTE PRESENTATION

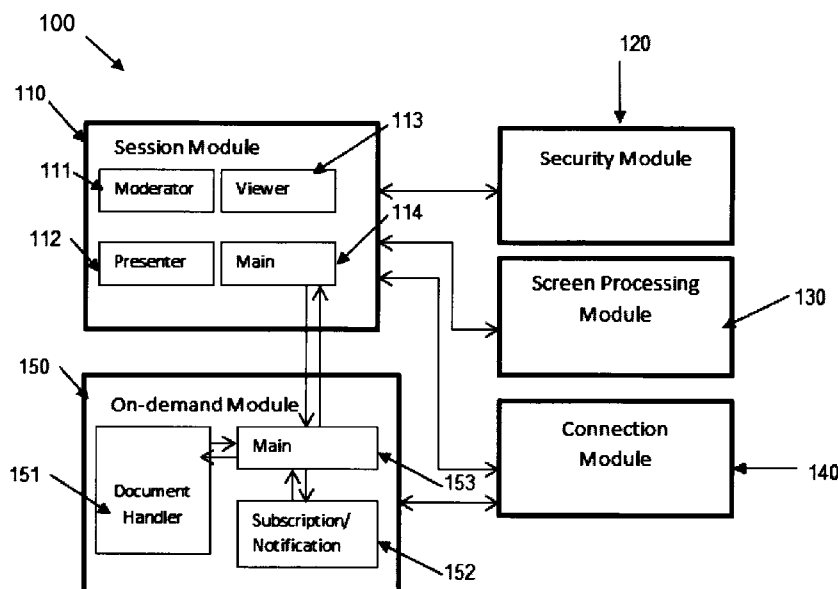


FIG. 1

(57) Abstract: The present invention relates to a system (100) and method for remote presentation. The system (100) allows audiences or viewers to request for specific or all pages of the document currently being presented over a network. The system (100) comprises of a session module (110), a security module (120), a screen processing module (130), a connection module (140), and an on-demand module (150). The on-demand module (150) includes a document handler module (151), a subscription and notification module (152) and a second main module (153).



— of inventorship (Rule 4.17(iv))

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SYSTEM AND METHOD FOR REMOTE PRESENTATION

FIELD OF INVENTION

The present invention relates to a system and method for remote
5 presentation. More particularly, the present invention relates to a real time and
on-demand remote presentation.

BACKGROUND OF THE INVENTION

There are systems or devices adapted to allow a presenter to share
10 the presentation materials amongst a plurality of participants. Such systems
facilitate and allow participants to view the remote presentation content locally
on their own devices.

For example, US patent publication no. 2008/0005233A1 discloses
15 online conferencing systems and methods for sharing of documents in a more
efficient manner during an online conference. A document to be shared is
transmitted to each of the participants of an online conference through a
conference server. If one of the participants navigates through the document
using an application, then a client conferencing system installed on the device
20 of the participant detects navigation instructions in the application and reports
the navigation instructions to the conference server. The conference server
then reports the navigation instructions to the other participants of the online
conference. The corresponding application on the devices of the other
participants receives the navigation instructions and operates according to the
25 instructions to synchronize viewing of the document among the participants.
All of the participants' view are synchronized where the participants cannot
view specific page or slide during the conference session.

In another example, US patent no. 7418664 discloses an application
30 sharing single document sharing. It is an improved application sharing system
and method to allow sharing of documents on a per document basis rather
than on a per application basis, in order to simplify the user experience and to

provide a more secure sharing environment. A window marking method is used to construct a window list describing the shared and unshared status of various windows. In an embodiment of the invention, a viewer machine displays only a most recently active shared document window even when
5 other windows are also marked as shared. In this way, a viewer's attention can be automatically focused on a current document of interest. However, this sharing system however has no navigation facility for the participants and thus, the participants can access only to the current page of the document (screen captured) being presented.

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Hence, there is a need to provide a system and method for sharing presentation that addresses the above mentioned drawbacks.

SUMMARY OF INVENTION

15 The present invention provides a system for remote presentation. The system comprises a session module (110), wherein the session remote presentation module includes a moderator module (111), a presenter module (112), at least one viewer module (113) and a first main module (114); a security module (120) for performing an authorization on all incoming
20 connection requests; a screen processing module (130) for capturing and displaying a local screen output; and a connection module (140) for discovering peer devices and announce a session.

Preferably, the on-demand module (150) includes a document handler
25 module (151) for identifying an active process at the top most desktop layer, monitoring a page or a slide index status and converting a document to a Joint Photographic Experts Group (JPEG) or a Portable Document Format (PDF), a subscription and notification module (152) for subscribing the moderator module (111) to the presenter module (112) and the viewer module (113) to
30 the moderator module (111), as well as transmitting notifications and files between the moderator module (111) and the presenter module (112) and between the moderator module (111) and the viewer module (113) and a

second main module (153) for managing and coordinating the document handler module (151) and the subscription and notification module (152), as well as interacting with the session module (110).

5 The present invention also provides a method for remote presentation. The method is characterized by the steps of performing node discovery among a moderator module (111), a presenter module (112) and at least one viewer module (113); establishing a session with the moderator module (111) by the presenter module (112); joining of the viewer module (113) with the
10 moderator module (111) to receive the presenter module's screen update; enabling an on-demand session by the presenter module (112); hosting the on-demand session by the moderator module (111); and requesting for an on-demand update by the viewer module (113).

15 Preferably, the step of enabling an on-demand session by the presenter module (112) includes enabling the on-demand session by the presenter module (112); determining the active window's process or application at the topmost desktop layer by the presenter module (112); determining whether the determined active process or application is an Office
20 document by the presenter module by accessing specific module at OS level (112); converting the determined Office document into a Joint Photographic Experts Group (JPEG) or a Portable Document Format (PDF) by the presenter device (112); sending the entire JPEG or PDF files to the moderator module (111) by the presenter module (112); setting a slide or page index to
25 zero by the presenter module (112) wherein the slide or page index refers to a number which keeps track of slide or page currently being presented; and sending the current index to the moderator module (111).

 Preferably, the step of hosting the on-demand session by the
30 moderator module (111) includes enabling the on-demand session by the moderator module (111); determining whether there is any incoming notification from either the presenter module (112) or the viewer module (113)

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by the moderator module (111); if the incoming notification is from the presenter module (112), determining whether the presenter module (112) has sent the current page index and subsequently updating the current index; if the presenter module (112) has not send the current page index, saving the
5 converted file into a local storage by the moderator module (111); determining the distribution of the converted file by the moderator module (111); if the incoming notification is from the viewer module (113), determining whether the viewer module (113) has requested for the entire file or a specific page; retrieving the PDF file from a local storage if archiving is enabled; sending the
10 requested page or file to the viewer module (113) by the moderator module (111); if archiving is disabled rejecting the request and notifying the viewer module (113) by the moderator module (111); and retrieving the requested page from the local storage and sends the requested page to the viewer module (113).

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Preferably, the step of requesting for an on-demand update by the viewer module (113) includes: determining whether viewer module (113) has joined a selected remote presentation session; receiving and viewing a remote content from the moderator module (111) by the viewer module (113);
20 determining whether the viewer module (113) has a request for a specific page or the entire file; sending the request to the moderator module (111) by the viewer module (113) if the viewer module (113) requests for the entire file; determining whether the moderator module (111) delivers the file to the viewer module (113); saving the file by the moderator module (111) if the moderator
25 module (111) delivers the file to the viewer module (113); informing the viewer module (113) the location of the saved file by the moderator module (111); sending the specific page request by the viewer module (113) to the moderator module (111) if the viewer module (113) requests for a specific page; and delivering the specific page to the viewer module (113) by the
30 moderator module (111) as requested.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings, which are incorporated in and constitute a part of the specification, illustrate embodiments of the invention and, together with the description, serve to explain the principles of the invention.

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FIG. 1 illustrates a system (100) for remote presentation according to an embodiment of the present invention.

FIG. 2 illustrates a method for remote presentation using the system (100) according to an embodiment of the present invention.

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FIG. 3 illustrates a flowchart of enabling the on-demand session by the presenter module (112) according to an embodiment of the present invention.

FIG. 4 illustrates a flowchart of hosting the on-demand session by the moderator module (111) according to an embodiment of the present invention.

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FIG. 5 illustrates a flowchart of requesting for the on-demand update by the viewer module (113) according to an embodiment of the present invention.

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DESCRIPTION OF THE PREFERRED EMBODIMENT

A preferred embodiment of the present invention will be described herein below with reference to the accompanying drawings. In the following description, well known functions or constructions are not described in detail since they would obscure the description with unnecessary detail.

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Referring to **FIG. 1**, there is shown a system (100) for remote presentation according to an embodiment of the present invention. The system (100) allows audiences or viewers to request for specific or all pages of the document currently being presented over a network. The system (100) comprises of a session module (110), a security module (120), a screen processing module (130), a connection module (140), and an on-demand

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module (150). The session module (110) is basically a main coordinator of a remote presentation session. The session module (110) comprises of a moderator module (111), a presenter module (112), at least one viewer module (113) and a first main module (114). The moderator module (111) is used for hosting the presentation session whereas the presenter module (112) is used to enable the transfer of its local screen output to at least one viewer module (113) in the network. The viewer module (113) participates in any on-going presentation session as a viewer. The first main module (114) is used to interact with the on-demand module (150). The session module (110) is connected to the security module (120), the screen processing module (130), the connection module (140) and the on-demand module (150).

The security module (120) is used to perform an authorization on all incoming connection requests. The screen processing module (130) is used to capture and display a local screen output. Local screen output comprises of any object which appears on the screen including texts, pictures, graphics, animations, videos and pointing commands such as a mouse pointer. The connection module (140) is used to discover peer devices and announce a session as well as establishing a data unicast or multicast connection. It is connected to the session module (110) and the on-demand module (150).

The on-demand module (150) acts as a coordinator of enabling an on-demand session management. The on-demand module (150) includes a document handler module (151), a subscription and notification module (152) and a second main module (153). The document handler module (151) is used to identify an active window's process at the top most desktop layer. It is also used to monitor a page or a slide index status as well as converting a document to a Joint Photographic Experts Group (JPEG) or a Portable Document Format (PDF). The subscription and notification module (152) is used to subscribe the moderator module (111) to the presenter module (112) and the viewer module (113) to the moderator module (111), as well as transmitting notifications and files between the moderator module (111) and

the presenter module (112) and between the moderator module (111) and the viewer module (113). The second main module (153) is used to manage and coordinate the document handler module (151) and the subscription and notification module (152), as well as interacting with the session module (110).

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FIG. 2 shows a method for remote presentation using the system (100). Initially, in step 200, the system (100) performs a node discovery among the moderator module (111), the presenter module device (112) and the viewer module (113) by means of broadcasting and listening to beacon message
10 which includes IP address and session names of the moderator module (111). Next in step 300, the presenter module (112) establishes a session with the moderator module (111) using the discovered IP address of the moderator module (111). The viewer module (113) joins the moderator module (111) to receive the presenter module's screen update as in step 400. In step 500, the
15 presenter module (112) enables an on-demand session. Later on, the moderator module (111) hosts the on-demand session as in step 600 and the viewer module (113) requests for an on-demand update as in step 700

FIG. 3 shows a flowchart of enabling the on-demand session by the
20 presenter module (112) as in step 500 of **FIG. 2**. In decision 510, the on-demand session is enabled by the presenter module (112) by clicking on a specific button on a user interface. The presenter module (112) determines the active process or application at the topmost desktop layer by accessing specific module at OS level as in step 511. In decision 512, the presenter
25 module (112) determines whether the determined active process is an Office document such as word, spreadsheet, and presentation slides. If the determined active Window's process is not an Office document, the session ends. However, if the determined active process is an Office document, the presenter module (112) converts the found Office document into alternative
30 file format such as JPEG or PDF as in step 513. Next in step 514, the entire JPEG or PDF files are sent to the moderator module (111) by the presenter module (112). In step 515, the presenter module (112) set a slide or page

index to zero wherein the slide or page index refers to a number which keeps track of slide or page currently being presented and later sends it to the moderator module (111) as in step 516. In step 517, the presenter module (112) monitors the slide or page index changes as the presenter module (112) navigate his or her document, and later sending the latest index to the moderator module (111). In decision 518, if the slide or page index has changes, the presenter module (112) ends the presentation as in decision 519. If the slide or page index has no changes, the method returns to step 517. If the presenter module (112) ends the presentation, the presenter module (112) informs the moderator module (111) the session has ended as in step 520. If the presenter module (112) does not end the presentation, the method returns to step 516.

FIG. 4 shows a flowchart of hosting the on-demand session by the moderator module (111) as in step 600 of FIG. 2. In step 610, the moderator module (111) subscribes to the presenter module (112) and enables the on-demand session, by clicking on specific button on the user. The moderator module (111) verifies whether there is any incoming notification from either the presenter module (112) or the viewer module (113) as in decision 611. If there is no incoming notification, the viewer module (113) determines whether to quit from the session as in decision 612. If the viewer module (113) does not quit the session, the method returns to step 610.

However, if the incoming notification is from the presenter module (112), the moderator module (111) determines whether the presenter module (112) has sent the current page index as in decision 621. If the presenter module (112) has not send the current page index, the moderator module (111) saves the converted file into a local storage and determines whether to distribute the converted files as in steps 623 and 624. If the presenter module (112) sends the current page index, the presenter module (112) updates the current page index as in step 622. If the presentation ends as in decision 625,

the method stops. If the presentation is on-going, the method returns to step 624.

If the incoming notification is from the viewer module (113), the moderator module (111) determines whether the viewer module (113) has requested for the entire file or a specific page as in decision 615. If the viewer module (113) has requested for a specific page, the moderator module (111) retrieves the PDF file from a local storage as in step 619. Then, the moderator module (111) sends the requested page to the viewer module (113) as in step 620. If the viewer module (113) has requested for the entire file, the moderator module (111) determines whether the file can be archived as in decision 614. If the file can be archived, the moderator module (111) retrieves the PDF file from the local storage as in step 616 and sends it to the viewer module (113) as in step 617. If archiving is disabled, the moderator module (111) rejects the request and notifies the viewer module (113) as in step 618.

FIG. 5 shows a flowchart of requesting for the on-demand update by the viewer module (113) as in step 700 of FIG. 2. In step 710, the method is to verify whether the viewer module (113) has joined a selected remote presentation session. If the viewer module (113) has joined the selected remote presentation session, the viewer module (113) receives and views a remote content from the moderator module (111) as in step 722. If the viewer module (113) does not join the selected session, the moderator module determines whether the viewer module (113) quits the session as in decision 711. If the viewer module (113) quits the session, the session ends as in step 724. If the viewer module (113) does not quit the session, the method returns to decision 710.

If the viewer module (113) receives and views a remote content from the moderator module (111), the moderator module (111) determines whether the viewer module (113) requests to quit from the session as in decision 723. If the viewer module (113) quits from the session, the method proceed to step

724. If the viewer module (113) does not quit from the session, the moderator module (111) determines whether the viewer module (113) has a request as in decision **725**. If the viewer module (113) has no request, the method returns to step **723**. If the viewer module (113) makes the request, the moderator module (111) determines whether the viewer module (113) requests for a specific page or the entire file as in decision **726**.

If the viewer module (113) requests for the entire file, the viewer module (113) sends the request to the moderator module (111) as in step **729**. The moderator module (111) delivers the file to the viewer module (113) as in decision **730**. If the viewer module (113) has not received the PDF file, the method returns to step **722**. If the moderator delivers the file to the viewer module (113), the moderator module (111) saves the PDF file as in step **731**. Next, the moderator module (111) informs the viewer module (113) the location of the saved file as in step **732**.

However, if the viewer module (113) requests for a specific page, the viewer module (113) send the specific page request to the moderator module (111) as in step **727**. Next, the moderator module (111) delivers the specific page to the viewer module (113) as requested as in step **728**. Thereon, the method returns to step **722**.

While embodiments of the invention have been illustrated and described, it is not intended that these embodiments illustrate and describe all possible forms of the invention. Rather, the words used in the specifications are words of description rather than limitation and various changes may be made without departing from the scope of the invention.

CLAIMS

1. A system (100) for remote presentation is comprising:
 - a.) a session module (110), wherein the session module includes a moderator module (111), a presenter module (112), at least one viewer module (113) and a first main module (114);
 - b.) a security module (120) for performing an authorization on all incoming connection requests;
 - c.) a screen processing module (130) for capturing and displaying a local screen output; and
 - d.) a connection module (140) for discovering peer devices and announce a session;
2. The system as claimed in Claim 1, wherein the on-demand module (150) includes:
 - a.) a document handler module (151) for identifying an active window's process at the top most desktop layer, monitoring a page or a slide index status and converting a document to a Joint Photographic Experts Group (JPEG) or a Portable Document Format (PDF);
 - b.) a subscription and notification module (152) for subscribing the moderator module (111) to the presenter module (112) and the viewer module (113) to the moderator module (111), and transmitting notifications and files between the moderator module (111) and the presenter module (112) and between the moderator module (111) and the viewer module (113); and
 - c.) a second main module (153) for managing and coordinating the document handler module (151) and the subscription and notification module (152), and interacting with the session module (110).
3. A method for remote presentation is characterized by the steps of:

- a.) performing node discovery among a moderator module (111), a presenter module (112) and at least one viewer module (113);
- b.) establishing a session with the moderator module (111) by the presenter module (112);
- 5 c.) joining of the viewer module (113) with the moderator module (111) to receive the presenter module's screen update;
- d.) enabling an on-demand session by the presenter module (112);
- e.) hosting the on-demand session by the moderator module (111); and
- 10 f.) requesting for an on-demand update by the viewer module (113).

4. The method as claimed in claim 3, wherein enabling an on-demand session by the presenter module (112) includes:

- 15 a.) enabling the on-demand session by the presenter module (112);
- b.) determining the active window's process or application at the topmost desktop layer by the presenter module (112);
- c.) determining whether the determined active Window's process or application is an Office document by the presenter module by
- 20 accessing specific module at OS level (112);
- d.) converting the determined Office document into a Joint Photographic Experts Group (JPEG) or a Portable Document Format (PDF) by the presenter device (112);
- e.) sending the entire JPEG or PDF files to the moderator module
- 25 (111) by the presenter module (112);
- f.) setting a slide or page index to zero by the presenter module (112) wherein the slide or page index refers to a number which keeps track of slide or page currently being presented; and
- g.) sending the current index to the moderator module (111).

5. The method as claimed in claim 3, wherein hosting the on-demand session by the moderator module (111) includes:

- a.) enabling the on-demand session by the moderator module (111);
- 5 b.) determining whether there is any incoming notification from either the presenter module (112) or the viewer module (113) by the moderator module (111);
- c.) if the incoming notification is from the presenter module (112), determining whether the presenter module (112) has sent the current page index and subsequently updating the current index;
- 10 d.) if the presenter module (112) has not send the current page index, saving the converted file into a local storage by the moderator module (111);
- e.) determining the distribution of the converted file by the moderator module (111);
- 15 f.) if the incoming notification is from the viewer module (113), determining whether the viewer module (113) has requested for the entire file or a specific page;
- g.) retrieving the PDF file from a local storage (if archiving is enabled);
- 20 h.) sending the requested page or file to the viewer module (113) by the moderator module (111);
- i.) if archiving is disabled rejecting the request and notifying the viewer module (113) by the moderator module (111); and
- 25 j.) retrieving the requested page from the local storage and sends the requested page to the viewer module (113).

6. The method as claimed in claim 3, wherein requesting for an on-demand update by the viewer module (113) includes:

- 30 a.) determining whether viewer module (113) has joined a selected remote presentation session;

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- b.) receiving and viewing a remote content from the moderator module (111) by the viewer module (113);
- c.) determining whether the viewer module (113) has a request for a specific page or the entire file;
- 5 d.) sending the request to the moderator module (111) by the viewer module (113) if the viewer module (113) requests for the entire file;
- e.) determining whether the moderator module (111) delivers the file to the viewer module (113);
- 10 f.) saving the file by the moderator module (111) if the moderator module (111) delivers the file to the viewer module (113);;
- g.) informing the viewer module (113) the location of the saved file by the moderator module (111);
- h.) sending the specific page request by the viewer module (113) to the moderator module (111) if the viewer module (113) requests for a specific page; and
- 15 i.) delivering the specific page to the viewer module (113) by the moderator module (111) as requested.

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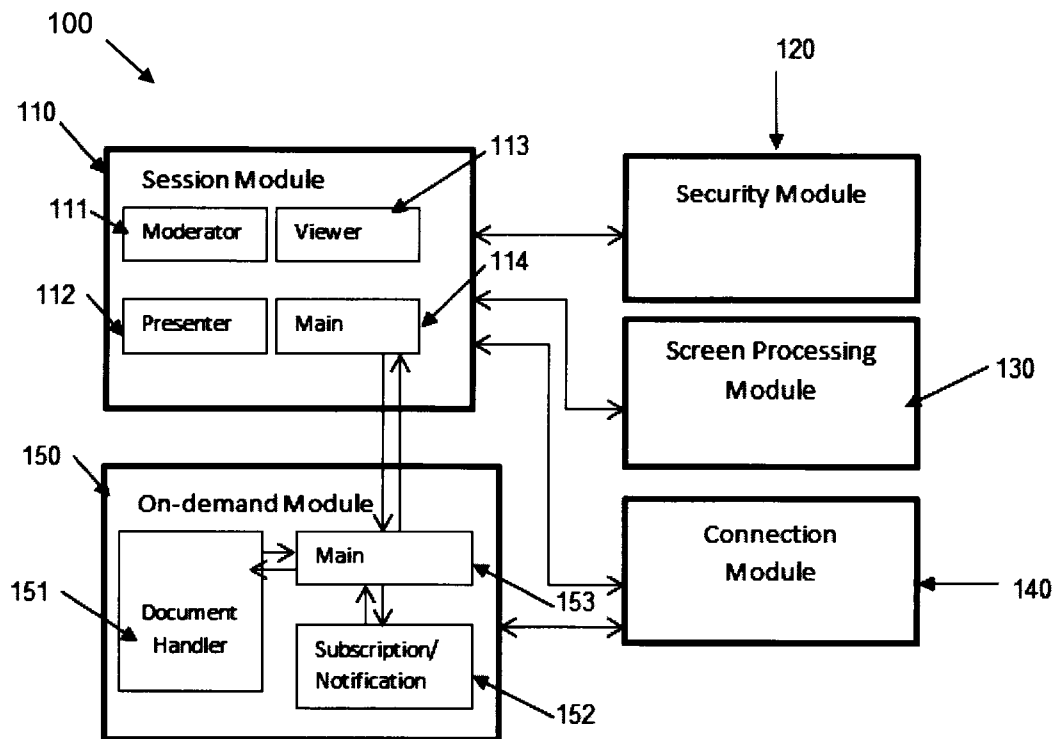


FIG. 1

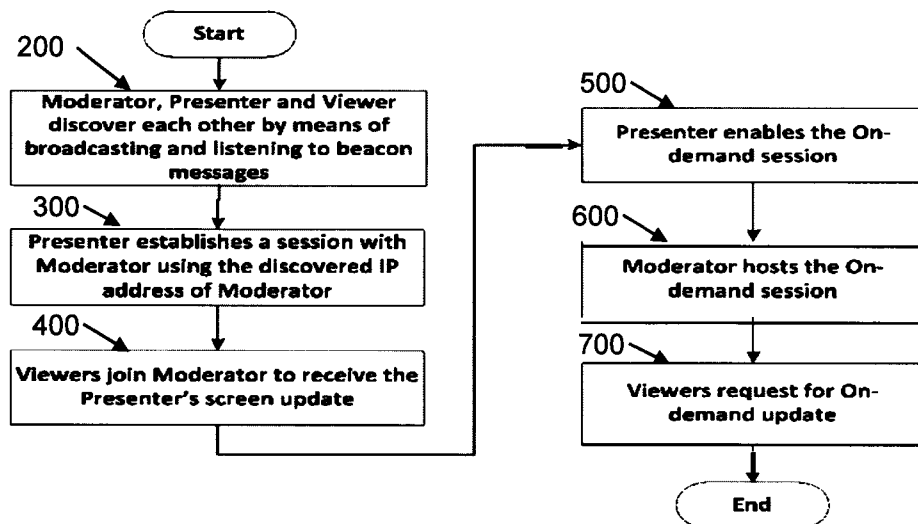


FIG. 2

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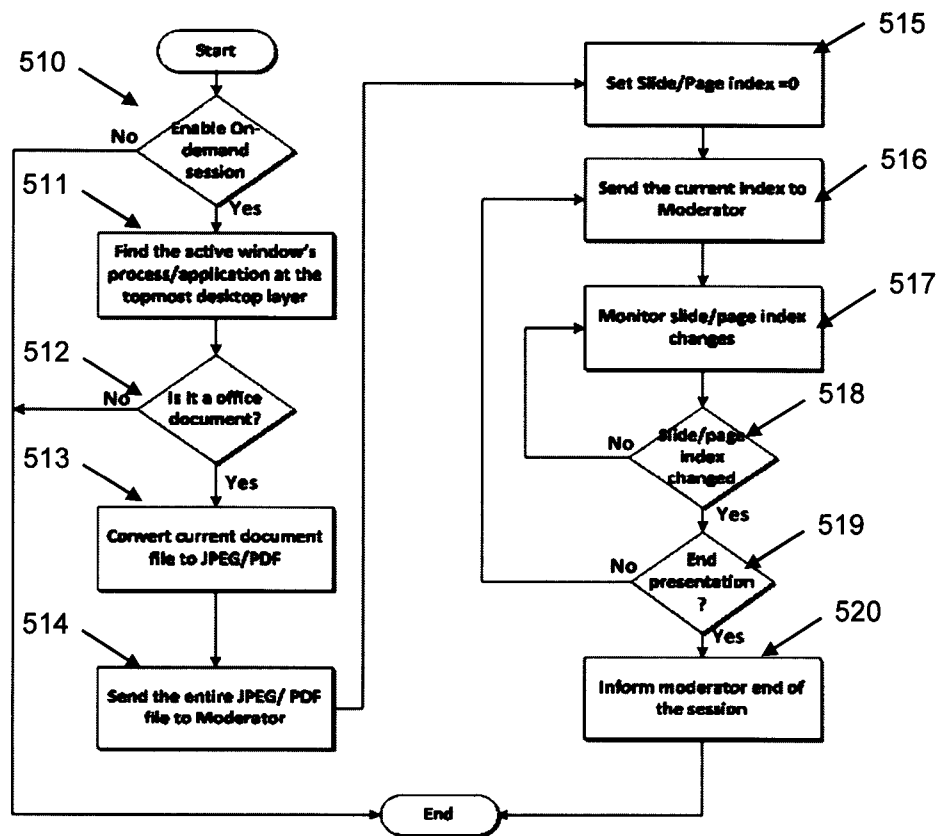


FIG. 3

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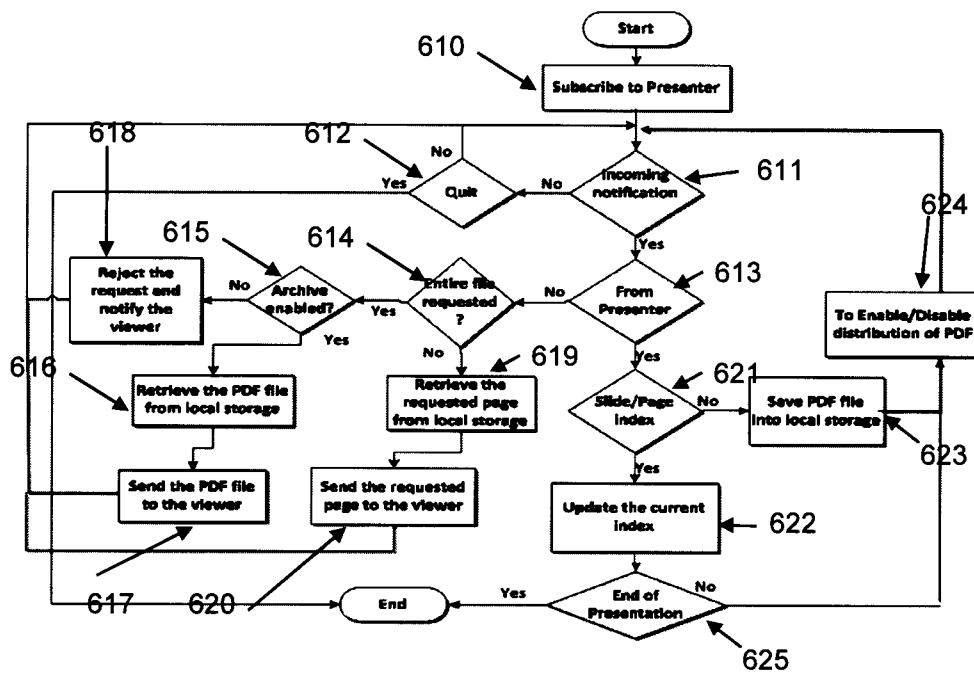


FIG. 4

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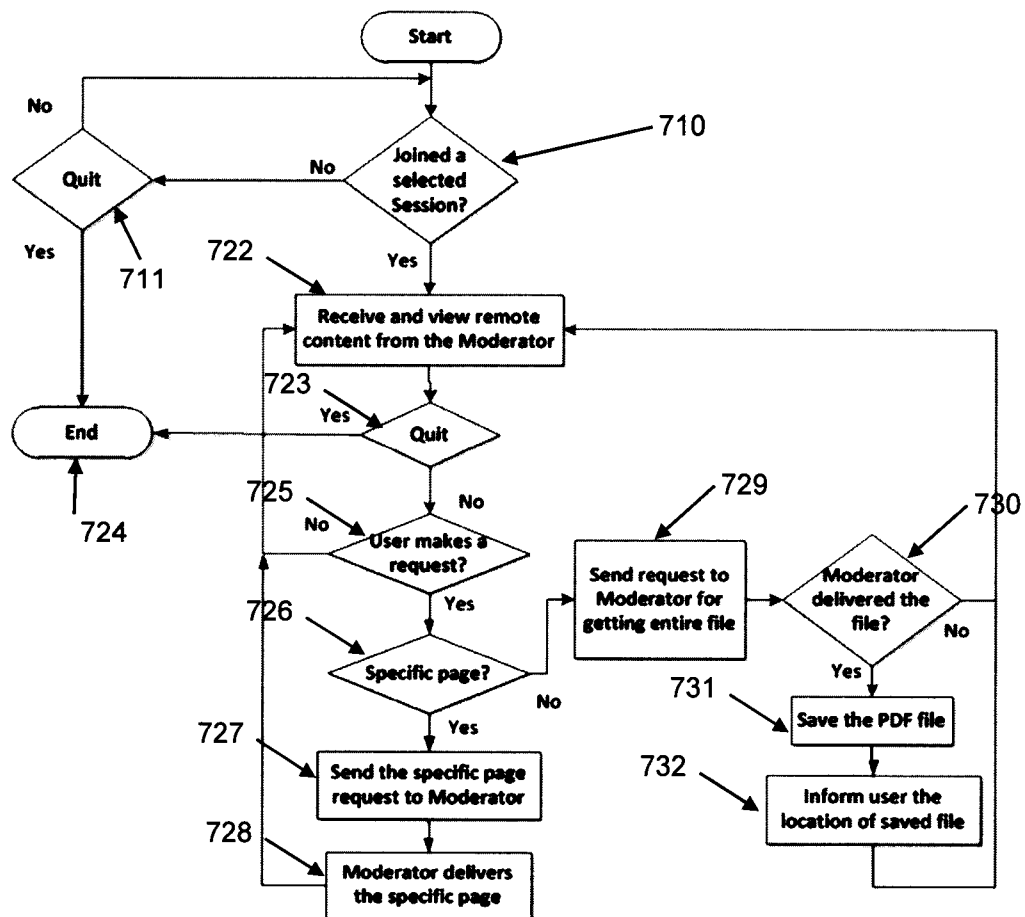


FIG. 5

INTERNATIONAL SEARCH REPORT

International application No
PCT/MY2014/000079

A. CLASSIFICATION OF SUBJECT MATTER
INV. H04L29/06
ADD.

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)
G06Q H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/085029 A1 (GHANI JAMAL [US]) 4 July 2002 (2002-07-04) page 2, paragraph 35 - page 5, paragraph 66 claims 1-3 -----	1-6
X	US 2007/266325 A1 (HELM MICHAEL A [CA] ET AL) 15 November 2007 (2007-11-15) page 2, paragraph 38 - page 6, paragraph 71 -----	1-6
A	US 2008/005233 A1 (CAI YIGANG [US] ET AL) 3 January 2008 (2008-01-03) cited in the application page 2, paragraph 20 - page 5, paragraph 48 -----	1-6



Further documents are listed in the continuation of Box C.



See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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