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(71) Applicant(s)
Notarize, Inc.

(72) Inventor(s)
KIM, Rhan Kathleen;JENKINS, Alexander James;MORTON, Russell;GONZALEZ II, Arturo;KUANG, Raynor Joseph;TEO, Nicholas Guo Ying

(74) Agent / Attorney
RnB IP Pty Ltd, PO Box 9530, Deakin, ACT, 2600, AU

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(71) Applicant: NOTARIZE, INC. [US/US]; 745 Boylston Street, Suite 600, Boston, Massachusetts 02116 (US).

(72) Inventors: KIM, Rhan Kathleen; 195 Beacon Street, #6, Boston, Massachusetts 02116 (US). JENKINS, Alexander James; 4 Chesterton Road, Wellesley, Massachusetts 02481 (US). MORTON, Russell; 61 Parker Road, Wellesley, Massachusetts 02482 (US). GONZALEZ, II, Arturo; 10 Soden St., Apt. GB, Cambridge, Massachusetts 02139 (US). KUANG, Raynor Joseph; 111 Park Drive B, Boston, Massachusetts 02215 (US). TEO, Nicholas Guo Ying; 11 St. Paul St., Apt. 2, Cambridge, Massachusetts 02139 (US).

(74) Agent: WHITTENBERGER, Mark H. et al.; HOLLAND & KNIGHT LLP, 10 St. James Avenue, Boston, Massachusetts 02116 (US).

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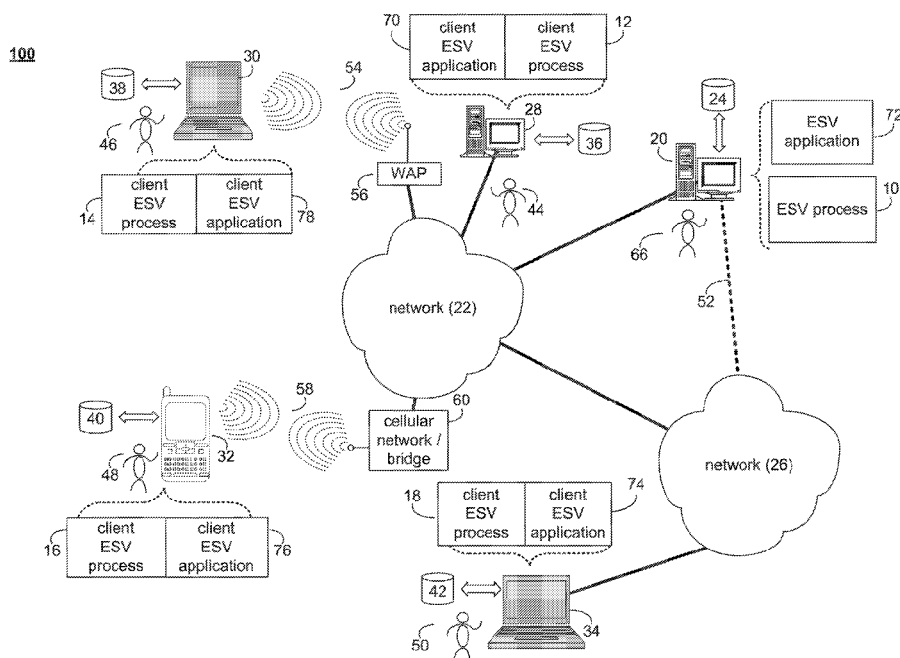


FIG. 1

(57) Abstract: A system and method for electronic signature validation is provided. Embodiments may include initiating, using a computing device, an online notarization meeting between a signer and an agent and displaying, at a graphical user interface, a first electronic document associated with the online notarization meeting. Embodiments may also include allowing, at the graphical user interface, one or more edits to the first electronic document to generate a partially completed first electronic document and displaying, at the graphical user interface, a user selectable option to lock the partially completed first electronic document. In response to receiving a selection of the user selectable option, embodiments may further include storing the partially completed first electronic document. Embodiment may further include determining that the online notarization meeting has been interrupted and recovering, after the interruption, the partially completed first electronic document.



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SYSTEM AND METHOD FOR AUTOMATED ONLINE NOTARIZATION MEETING RECOVERY

Related Cases

[001] This application claims the benefit of U.S. Provisional Application No. 62/575,772 filed on October 23, 2017, entitled AUTOMATED ONLINE NOTARIZATION MEETING RECOVERY, the contents of which are all incorporated by reference.

Technical Field

[002] This disclosure relates to validation systems, and more particularly to validating authorship of an electronic signature session in the event of an interruption.

Background

[003] Electronic signatures or e-signatures have long been enforceable in contracts, and have the same legal consequences in many jurisdictions as more traditional forms of executing documents. With the widespread adoption of mobile devices, there has been a significant increase in the usage of user-centric mobile electronic signature services. Although mobile electronic signature services are becoming increasingly widespread it is difficult to conclusively establish the identity of the signing party so as to protect against fraud.

Summary

[004] In one or more embodiments of the present disclosure, a computer-implemented for electronic signature validation is provided. The method may include initiating, using a computing device, an online notarization meeting between a signer and an agent and displaying, at a graphical user interface, a first electronic document associated with the online notarization meeting. The method may also include allowing, at the graphical user interface, one or more edits to the first electronic document to generate a partially completed first electronic document and displaying, at

the graphical user interface, a user selectable option to lock the partially completed first electronic document. In response to receiving a selection of the user selectable option, the method may further include storing the partially completed first electronic document. The method may further include determining that the online notarization meeting has been interrupted and recovering, after the interruption, the partially completed first electronic document.

[005] One or more of the following features may be included. In some embodiments, the first electronic document may be one of a plurality of electronic documents associated with the online notarization meeting. The user selectable option may include an option to reject the partially completed first electronic document. Upon selection of the option to reject, the method may include displaying, at the graphical user interface, one or more user selectable reasons for rejection. Recovering the partially completed first electronic document may include recovering a video recording associated with the online notarization meeting. The method may further include displaying, at the graphical user interface, a listing of a plurality of electronic documents, wherein the listing includes the partially completed first electronic document and at least one fully completed electronic document. The method may also include automatically processing the partially completed first electronic document after the determining.

[006] In another embodiment of the present disclosure, a computer readable storage medium having stored thereon one or more instructions that when executed by a computer result in one or more operations associated with an electronic signature validation method is provided. Operations may include initiating, using a computing device, an online notarization meeting between a signer and an agent and displaying, at a graphical user interface, a first electronic document associated with the online notarization meeting. Operations may also include allowing, at the graphical user interface, one or more edits to the first electronic document to generate a partially completed first electronic document and displaying, at the graphical user interface, a

user selectable option to lock the partially completed first electronic document. In response to receiving a selection of the user selectable option, operations may further include storing the partially completed first electronic document. Operations may further include determining that the online notarization meeting has been interrupted and recovering, after the interruption, the partially completed first electronic document.

[007] One or more of the following features may be included. In some embodiments, the first electronic document may be one of a plurality of electronic documents associated with the online notarization meeting. The user selectable option may include an option to reject the partially completed first electronic document. Upon selection of the option to reject, operations may include displaying, at the graphical user interface, one or more user selectable reasons for rejection. Recovering the partially completed first electronic document may include recovering a video recording associated with the online notarization meeting. Operations may further include displaying, at the graphical user interface, a listing of a plurality of electronic documents, wherein the listing includes the partially completed first electronic document and at least one fully completed electronic document. Operations may also include automatically processing the partially completed first electronic document after the determining.

[008] In another embodiment of the present disclosure, an electronic signature validation system is provided. The system may include at least one processor configured to initiate an online notarization meeting between a signer and an agent. The at least one processor may be further configured to display, at a graphical user interface, a first electronic document associated with the online notarization meeting. The at least one processor may be further configured to allow, at the graphical user interface, one or more edits to the first electronic document to generate a partially completed first electronic document. The at least one processor may be further configured to display, at the graphical user interface, a user selectable option to lock the partially completed first electronic document. In response to receiving a selection of

the user selectable option, the at least one processor may be further configured to enable a storing of the partially completed first electronic document. The at least one processor may be further configured to determine that the online notarization meeting has been interrupted. The at least one processor may be further configured to recover, after the interruption, the partially completed first electronic document.

[009] One or more of the following features may be included. In some embodiments, the first electronic document may be one of a plurality of electronic documents associated with the online notarization meeting. The user selectable option may include an option to reject the partially completed first electronic document. Upon selection of the option to reject, the at least one processor may be configured to display, at the graphical user interface, one or more user selectable reasons for rejection. Recovering the partially completed first electronic document may include recovering a video recording associated with the online notarization meeting. The at least one processor may be configured to display, at the graphical user interface, a listing of a plurality of electronic documents, wherein the listing includes the partially completed first electronic document and at least one fully completed electronic document. The at least one processor may be configured to automatically process the partially completed first electronic document after the determining.

[0010] The details of one or more embodiments are set forth in the accompanying drawings and the description below. Other features and advantages will become apparent from the description, the drawings, and the claims.

Brief Description of the Drawings

[0011] Embodiments of various techniques directed to a system and a method for validating authorship of an electronic signature session, will hereafter be described with reference to the accompanying drawings. It should be understood, however, that the accompanying drawings illustrate only the various embodiments described herein, and are not meant to limit the scope of the various techniques described herein.

[0012] FIG. 1 is an illustrative diagrammatic view of an electronic signature

validation process coupled to a distributed computing network, according to one or more embodiments of the present disclosure;

[0013] FIG. 2 is an illustrative flowchart of the electronic signature validation process of FIG. 1, according to one or more embodiments of the present disclosure;

[0014] FIG. 3 is an illustrative diagrammatic view of a client electronic signature validation application scanning interface, according to one or more embodiments of the present disclosure;

[0015] FIG. 4 is an illustrative diagrammatic view of a client electronic signature application document display interface, according to one or more embodiments of the present disclosure;

[0016] FIG. 5 is an illustrative diagrammatic view of a client electronic signature application verification interface, according to one or more embodiments of the present disclosure;

[0017] FIG. 6 is an illustrative diagrammatic view of an automated online notarization meeting recovery process coupled to a distributed computing network, according to one or more embodiments of the present disclosure;

[0018] FIG. 7 is a graphical user interface showing an example embodiment consistent with the automated online notarization meeting recovery process of the present disclosure;

[0019] FIG. 8 is a graphical user interface showing an example embodiment consistent with the automated online notarization meeting recovery process of the present disclosure;

[0020] FIG. 9 is a graphical user interface showing an example embodiment consistent with the automated online notarization meeting recovery process of the present disclosure;

[0021] FIG. 10 is a graphical user interface showing an example embodiment consistent with the automated online notarization meeting recovery process of the present disclosure;

[0022] FIG. 11 is a graphical user interface showing an example embodiment consistent with the automated online notarization meeting recovery process of the present disclosure;

[0023] FIG. 12 is a graphical user interface showing an example embodiment consistent with the automated online notarization meeting recovery process of the present disclosure;

[0024] FIG. 13 is a graphical user interface showing an example embodiment consistent with the automated online notarization meeting recovery process of the present disclosure;

[0025] FIG. 14 is a graphical user interface showing an example embodiment consistent with the automated online notarization meeting recovery process of the present disclosure; and

[0026] FIG. 15 is an illustrative flowchart of the automated online notarization meeting recovery process of FIG. 6, according to one or more embodiments of the present disclosure.

[0027] Like reference symbols in the various drawings may indicate like elements.

Detailed Description

System Overview:

[0028] Reference will now be made in detail to the embodiments of the present disclosure, examples of which are illustrated in Figures 1-15. The present disclosure may, however, be implemented in many different forms and should not be construed as being limited to the embodiments set forth herein. Rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the concept of the disclosure to those skilled in the art.

[0029] Referring now to FIG. 1 there is shown an electronic signature validation (ESV) process that may reside on and/or be executed by a microprocessor(s) (not shown) that may be executed by one or more client electronic devices (e.g., client

electronic devices 28, 30, 32 and/or 34, respectfully). Examples of client electronic devices 28, 30, 32, and 34 may include, but are not limited to, a personal computer(s) 28, a notebook computer(s) 30, a smartphone(s) 32, a laptop computer(s) 34, and an application specific device(s) (not shown). The one or more client electronic devices 28, 30, 32 and/or 34 may be connected to a network 22, wherein the network 22 may be the internet or a local area network. Further, a server ESV process 10 may reside, in whole or part, on server computer 20, which may be connected to network 22.

[0030] Embodiments of client ESV process 16 may be configured to leverage smartphone 32 technology (e.g. smartphone audio/visual recordings, Global Positioning System (GPS), etc.), and may include one or more downloadable applications, an application specific device, cellular connectivity, and a web based monitoring system. Accordingly client ESV process 16 may validate authorship of a user's (e.g. user 48) electronic signature of a digital copy of a document 410.

[0031] Referring now to FIGS. 1 through 15, while client ESV process 16 is depicted in FIG. 1, and throughout the disclosure as residing in whole or in part on a smartphone 32 this is intended to be for illustrative purposes only. The smartphone 32 may be any mobile computing device, some of which may include, but are not limited to a tablet, a phablet, smartwatch, or an application specific device, wherein the mobile computing device is capable of executing in whole or part the client ESV process 16.

[0032] Referring again to FIG. 2, there is shown a flowchart for a method 200 for transmitting a document signing transaction session from a client ESV application 76 to an ESV application 72, wherein the document signing transaction session may be associated with a user 48. In some instances the document signing transaction session may include personally identifiable information, wherein the personally identifiable information may enable the user 48 to be uniquely identified. ESV process 10 may include analyzing (210) at least one government identification document, wherein the analyzing includes authenticating the at least one government identification document. Embodiments may further include extracting (215) personally identifiable information

pertaining to a user from the at least one government identification document. Embodiments may also include displaying (220) a digital copy of a document to be signed to the user and capturing (225) an electronic signature of the document by the user. Embodiments may further include receiving (230) personally identifiable information, wherein the personally identifiable information pertains to the user and enables the user to be uniquely identified. Embodiments may also include transmitting (235) a document signing transaction session. Numerous other operations are also within the scope of the present disclosure, which are discussed in further detail hereinbelow.

[0033] In some embodiments, the client ESV application 76 may be executed by client ESV process 16, and client ESV process 16 may reside on, and may be executed by client device 32, wherein client device 32 is a smartphone 32. Client ESV application 76 may be a standalone client ESV application 76. The ESV application 72 may be executed by server ESV process 10, and server ESV process 10 may reside on and may be executed by server computer 20. Server computer 20 may be one or more web servers, wherein the ESV application 72 may be a web base application.

[0034] It should be understood that while method 200 indicates a particular order of execution of operations, in some instances, certain portions of the operations may be performed in a different order, and on different systems. Further, in some other instances, additional operations or steps may be added to method 200. Similarly, some operations or steps may be omitted from method 200.

[0035] In some embodiments, ESV process 10 may include monitoring one or more sensor(s), wherein the one or more sensors are configured to collect personally identifiable information pertaining to the user 48. For example, the smartphone 32 may include a camera, wherein the camera may be configured to capture a real-time image 510 of the user. The real-time image 510 of the user 48 may be used to uniquely identify the user 48 and/or verify that the user is performing a required act, wherein the required act may be signing a digital copy of a document 410 with an electronic signature,

executing an oath, making an affidavit etc.

[0036] In some embodiments, the personally identifiable information may include biometric data and/or location data. For example, the biometric data may include at least some of a DNA analysis, an earlobe geometry analysis, an eye patterns analysis, a facial recognition analysis, a fingerprint analysis, a hand geometry analysis, a signature analysis, and a voice waveform analysis. For example, the location data may include one more of Global Positioning System (GPS) data, Wi-Fi access point identification information, cell phone tower identification information, wherein the location data is Assisted Global Positioning System (A-GPS) data. The personally identifiable information pertaining to user 48 may enable the user 48 and his/her location to be uniquely identified, and thereby validate authorship of an electronic signature session.

[0037] In some embodiments, ESV process 10 may include scanning one or more forms of government identification document(s) associated with the user 48, wherein the one or more forms of government identification document(s) include personally identifiable information. For example, the client ESV process 16 may utilize one or more camera(s) of the smartphone 32 to scan one or more forms of government identification document(s), wherein the one or more forms of government identification document(s) may include at least one of, Social Security Card, driver's license, government issued identification card, military identification, passport, passport card, birth certificate, Department of Defense identification card, Certificate of U.S. Citizenship, Certificate of Naturalization, Green Card, NEXUS card, SENTRI card etc. In some instances, the ESV process 16 may utilize one or more camera(s) of the smartphone 32 to capture an image of the one or more forms of government identification document(s) provided by the user 48. For example, the user 48 may use their smartphone 32 to take a picture of their driving license 310, and the image may be uploaded to client ESV application 76 and/or ESV application 72 for processing, wherein ESV application 72 is a web based ESV application.

[0038] In some embodiments, ESV process 10 may include authenticating the one

or more forms of government identification document(s), wherein the authenticity of the one or more form(s) of government identification document(s) may be validated. In some instances, the authentication may be done by one or more supervisors 66 and/or the authentication may be done by one or more software analysis programs. The one or more software analysis programs may be part of the client ESV application 16 and/or part of the ESV application 72.

[0039] In some embodiments, ESV process 10 may include extracting personally identifiable information pertaining to the user from the one or more forms of government identification. In some instances, the extraction of personally identifiable information may be done by one or more software analysis programs. The one or more software analysis programs may be part of the client ESV application 16 and/or part of the ESV application 72. For example the user 48 may take a picture of their government identification document using their smartphone 32 camera, and the one or more software analysis programs may digitize the user's 48 photograph 320 and/or signature 330, which may be incorporated into the government identification document. In some instances, the user's 48 digitized personal identification information may be used as a reference. For example, a photograph 320 of the user 48 may be extracted from an authenticated form of government identification and used as a reference image 520 of the user 48. In another embodiment, the ESV process 10 may include extracting at least one of the user's date of birth 340, driving license number 390, eye color 380, hair color 360, height 370, social security number, residential address 350, sex 355, weight 350 etc., wherein the extracted information may be recorded, this information may also be used for identification purposes. In some instances, the user's extracted information may be used to autofill required fields 420 within the digital copy of the document 410.

[0040] In some embodiments, ESV process 10 may include displaying a digital copy of a document 410. The digital copy of the document 410 may be displayed on a screen of the smartphone 32. A user may scroll through this document 410, and may

select one or more fields 420 within the document 410 that require the user's electronic signature. The user may select fields 420 within the document 410 using a pointing device, wherein the pointing device may be the user's finger and/or a stylus. To administer the signature session the smartphone's 32 display may be configured as an input field, wherein the user may draw their signature, using their finger or a stylus as if it were a handwritten signature using pen and paper.

[0041] In some embodiments, ESV process 10 may include capturing the user's signature, wherein the user's signature is digitized. The ESV process 16 may further allow the user to place their electronic signature in the one or more fields 420 within the document 410, wherein the electronic signature may be scaled to fit the document field 420. In some instances, the electronic signature may be automatically be scaled to fit the document field 420 by the ESV process 16. The user and/or ESV process 16 may further verify that an electronic signature has been placed in all the required fields 420 in the document 410, whereupon the document 410 may be consider executed by the user. By executing the document 410 the user may be considered to have adopted the contents of the document 410.

[0042] In some embodiments, ESV process 10 may include comparing the real-time image 510 of the user with a reference image 520 of the user 48. The real-time image 510 may be used to uniquely identify the user 48 and confirm that the user 48 is performing a required task, wherein the required task is the electronic signature of a digital document 410. In some instances, the comparison may be done by one or more supervisors 66 and/or the comparison may be done by one or more software analysis programs. The one or more software analysis programs may be part of the client ESV application 16 and/or part of the ESV application 72.

[0043] In some embodiments, ESV process 10 may include facial recognition technology. For example, storage device 24 may include a database of stored images associated with each particular user of the client ESV application 76, wherein the stored images may be authenticated images. In some instances, each user may be validated

by sending a captured photo and/or video from their smartphone 32 over the network(s) 22 and/or 26, whereupon the photo may be compared against the images stored within the database of stored images in order to validate the user's 48 identity. Other biometric sensors and validation techniques may also be used without departing from the scope of the present disclosure. Additionally and/or alternatively, the facial recognition, biometric and location approaches described herein may be used wholly or partly with any other features of the ESV process 10.

[0044] In some embodiments, ESV process 10 may include determining a confidence score by means of software or human analysis. For example, ESV process 16 may compare the real-time image 510 of the user with a reference image 520 of the user 48, for the purpose of positively identifying the user 48, wherein the reference image 520 may have been extracted from one or more forms of government identification documents described herein. In some instances, the comparison may be performed by one or more software facial recognition programs, wherein one or more software facial recognition programs assign a confidence score based upon their analysis of whether the person identified in the reference image 520 corresponds to the person depicted in the real-time image 510. Further, there may be a threshold value for the confidence score, wherein the threshold value may determine whether the comparison is to be validated by a supervisor 66. In another embodiment, the verification may be performed entirely by a supervisor 66, and the supervisor 66 may assign a confidence score based on their analysis. In this instance, the ESV process 16 may live stream the document signing transaction session, wherein the document signing transaction session may be streamed in part or in its entirety.

[0045] In some embodiments, ESV process 10 may include recording a document signing transaction session, wherein the document signing transaction session may be recorded in part or in its entirety. For example, the ESV process 16 may utilize one or more camera(s) of the smartphone 32 to record a real-time image 510 of the user 48, wherein the real-time image 510 may be used to authenticate the identity of the user 48

and/or capture an image of the user 48 signing a digital copy of the document 410. The recording of the document signing transaction session may include at least some of, but not limited to, one or more forms of government identification documents, the digital document 410 to be signed, the user 48 signing the digital document 410, one or more forms of personally identifiable information as described herein etc. The recording of the document signing transaction session may further include a unique document identification number, wherein a unique document identification number is associated with each recording. In another embodiment, the recording may also record, and thereby identify in the case of a multi-party recording, any witnesses to the user 48 signing the digital document 410. The recording may also include metadata, such as the user's identifying information, who witnessed the document signing transaction session, location information, and other information relevant to the document signing transaction session. The recording may be transmitted in real-time to a ESV network 22 and/or 26, associated with the ESV application 72.

[0046] In some embodiments, ESV process 16 may include generating a unique identification number. The unique identification number may be associated with the document signing transaction session and may be a proprietary unique identification number. The unique identification number may be based upon, at least in part, the document signing transaction session metadata. In some instances, the unique identification number may be used to endorse the validity of the document signing transaction session. For example, the ESV process 16 may generate a unique identification number based upon, at least in part, the confidence score being greater than a threshold value and/or document signing transaction session be validated by a supervisor 66. In some instances, the supervisor 66 may further record that they observed the document signing transaction session in its entirety, whereupon the unique identification number may be appended to and/or added to the document signing transaction session. In another embodiment, a certification mark and/or seal may be appended to and/or added to the document 410, wherein the certification mark may be

a proprietary mark. The unique identification number may be used to retrieve the document signing transaction session at a later date.

[0047] In some embodiments, ESV process 10 may include storing the document signing transaction session. In some instances, ESV process 16 may store the document signing transaction session locally on the smartphone storage device 32. The document signing transaction session may later be retrieved and transmitted to ESV application 72, wherein the document signing transaction session may be stored on network storage device 24. The stored document signing transaction session may be stored for later retrieval and/or reference, wherein the unique identification number may be used to retrieve the document signing transaction session. The information pertaining to the signing transaction session and the executed document will be stored in a manner such that they are logically associated together so that the session details may later serve as supplementary verification details for the document itself.

[0048] In some embodiments, ESV process 10 may include enabling a wireless transmitter to transmit a document signing transaction session, wherein the document signing transaction session includes at least one of, the digital document 410, one or more electronic signatures, one or more forms of government identification document(s) or evidence of other means of identity verification, a real-time recording of the user, a real-time recording of one or more witness, a unique document identification number, the audit trail of the identify verification method, the video recording of the signing session, a confidence number etc. The document signing transaction session may be transmitted from the smartphone 32 to ESV application 72. Further, the document signing transaction session may be transmitted in response to a prompt from the monitoring network 22 and/or 26, or at the initiation of the user 48.

[0049] Referring now to FIG. 3, there is shown a diagrammatic view of a client ESV application 76 scanning interface 300 depicted on the display of the mobile smartphone 32. The scanning interface 300 may permit the user to scan one or more forms of government identification document(s) associated with the user 48. For

example, the user may utilize one or more camera(s) of the smartphone 32 to capture an image of the one or more forms of government identification document(s). The one or more forms of government identification document(s) may include at least one of, Social Security Card, driver's license 310, government issued identification card, military identification, passport, passport card, birth certificate, Department of Defense identification card, Certificate of U.S. Citizenship, Certificate of Naturalization, Green Card, NEXUS card, SENTRI card etc. For example, the user 48 may use their smartphone 32 to take a picture of their driving license 310, and the picture may be uploaded to client ESV application 76 and/or ESV application 72. The uploaded picture may further be authenticated by one or more software analysis programs, wherein the one or more software analysis programs may be associated with client ESV application 16. In some instances, personally identifiable information pertaining to the user may be extracted from the driving license 310. For example, a photograph 320 of the user 48 may be extracted from the user's driving license 310 and used as a reference image 520 for the user 48. Alternatively/additionally, a signature 330 of the user 48 may be extracted from the user's driving license 310 and used as a reference signature 330 for the user 48.

[0050] Referring now also to FIG. 4, there is shown a diagrammatic view of a client ESV 76 application document display interface 400. The document display interface 400 may display a digital copy of the document 410 on a screen of the smartphone 32. The user may select fields 420 within the document 410 using a pointing device which may require their electronic signature. To administer a signature the smartphone's 32 display may be configured as an input field, wherein the user may draw their signature using their finger or a stylus as if it were a handwritten signature using pen and paper.

[0051] Referring now also to FIG. 5, there is shown a diagrammatic view of a client application ESV 76 user verification interface 500. The user 48 may be presented with an visual and/or audio prompt as part of the ESV process 10, wherein the prompt may include instructions to perform one or more specific actions. The client monitoring

application 76 may utilize at least some of the smartphone 32 sensor(s) to collect personally identifiable information pertaining to the user 48, wherein the personally identifiable information may enable the user 48 to be uniquely identified. For example, the smartphone 32 may include one or more camera(s), and the one or more camera(s) may be configured by the client ESV application 76 to capture a real-time image 510 of the user 48. The real-time image 510 may be a still image and/or a video image of the user 48. The one or more real-time image(s) 510 may be time and/or date stamped. The still image and the video image may have different resolutions, and may be used for different purposes. For example, the still image may have a higher resolution than the video image, and may be used to uniquely identify the user 48. The video image may have a lower resolution than the still image, and may be used to confirm that an user 48 is performing a required task. For instance, the video image may be used to confirm that the user 48 is performing a required task, such as signing the document 410, and/or saying an identifiable and distinguishable phrase, such as their name. In some instances the video image may be used to uniquely identify the user 48.

[0052] Referring again to FIG. 5, there is shown a diagrammatic view of a real-time image 510 of the user 48 compared to a reference image 520 of the user 48. The reference image 520 may be stored locally (e.g. via storage device 40) and/or remotely (e.g. via storage device 24) at one or more storage locations. In another embodiment, the reference image 520 may be stored locally 40, and may be used to prompt the user 48 as to the requirements of the real-time image 510 that is to be recorded. For example, the reference image 520 may be a facial portrait, and the may be used to inform the user 48 of the relative size of the real-time image 510 that is to be recorded. The reference image 520 may be at least one of, a generic profile image, a previously recorded and stored reference image 520 of the user 48, and a generic facial profile silhouette. The reference image 520 may be used to align, and resize the real-time image 510. For instance, the real-time image 510 may be superimposed upon the reference image 520, and recording of the real-time image 510 may automatically begin

when the real-time image 510 and the reference image 520 are substantially aligned. Alternatively, the reference image 520 may be displayed adjacent to the real-time image 510, and used as a visual reference for a supervisor 66.

[0053] In some embodiments, the reference image 520 may enable the user 48 to be uniquely identified. For example, a supervisor 66 may compare the real-time image 510 with the reference image 520 for the purpose of uniquely identifying the user 48. The supervisor 66 may have the option to approve the real-time image 510 using an approval button 530 or reject the real-time image 510 using a rejection button 540, wherein the approval may or may not be in real-time. In some instances, the comparison may be done by one or more software analysis programs. The one or more software analysis programs may be part of the client ESV process 16 and/or ESV process 10, wherein ESV process 10 may be a web based monitoring process.

[0054] In some embodiments, the user's 48 current location and/or location data may be determined by the client monitoring application 76, and transmitted to the monitoring application 72, as part of the document signing transaction session described herein. The location data may be obtained from an integrated Global Positioning System (GPS) sensor within the smartphone 32. The location data may further be Assisted Global Positioning System (A-GPS) data, wherein GPS data is supplemented by Wi-Fi access point identification information and/or cell phone tower identification information.

[0055] In some embodiments, the method may further include the process of knowledge based authentication and/or antecedent proofing, whereby the user must successfully answer identity challenge questions to validate their identity. Accordingly, given information about the person, the method may generate out of wallet or identity challenge questions. The customer must answer them correctly. This may be provided as an alternative to the photo ID based identity verification. If it passes, the audit trail of the transaction may be stored, just like that of the photo ID. The method may also include an identity examination where the user is required to answer identity challenge

questions.

[0056] In some embodiments, each document may be "locked" or sealed with a digital security certificate. This certificate may be associated with the "observer" and may be associated with the graphical seal that they apply. The certificate locks the document so it cannot be edited, it also binds the document to the "observer" so that the observer may validate the transaction after the fact.

[0057] In some embodiments, any and all data may be stored in a logically associated way. As such, the document may be locked/encrypted and may be associated with the record of the transaction such that the document and the transaction can be independently verified via the recorded details of the transaction.

[0058] Referring also to FIGS. 6-15, embodiments consistent with an automated notarization meeting recovery ("NMR") process 610 are provided. In prior systems, if an online notarization meeting that included multiple documents was unsuccessful, all work performed on the documents by both signer and agent was lost. An unsuccessful meeting is defined as any meeting in which any documents in a package are not completed. There are numerous conditions that can cause a meeting to be unsuccessful. Some of these may include, but are not limited to, situations where a meeting is terminated by an agent, situations where a signer or agent leave the meeting by exiting the app or closing the browser window, situations where a meeting fails due to a technical problem or network conditions, etc. In these types of situations, when the signer returned, both the signer and agent had to start from the beginning of the document package and repeat all previous work. Given that multi-document meetings can take a long time (e.g., often more than an hour) this wasted effort resulted in a time-consuming, costly, and generally poor user experience.

[0059] Accordingly, embodiments of NMR process 610 are directed towards a solution for recovering from interrupted online notarization meetings such as those discussed in FIGS. 1-5. A coordinated system of software clients and a signing platform processing component allows agents to lock documents within a multi-document

package, so that if the meeting is interrupted by an issue beyond the direct control of participants, all progress made in the meeting can be recovered in a subsequent meeting. Embodiments may include a method for trained agents to change the status of a signing document during a meeting (“meeting A”), such that the signing platform can automatically process it correctly if the meeting fails. Embodiments may further include one or more graphical user interfaces or displays that may be configured to provide a series of visual cues to clearly indicate status of each signing document to signer, agent, and other authorized parties during, and between, each meeting. Embodiments may also include a method for initiating a new meeting (“meeting B”) based on the partially completed document set, such that the signing system recognizes previously completed documents, and does not require rework of either signer or agent.

[0060] Referring again to FIG. 6, an automated notarization meeting recovery (“NMR”) process 610 may be coupled to a computer or computer network. For example, server NMR process 610 may reside on and may be executed by server computer 620, which may be connected to network 622 (e.g., the Internet or a local area network). Examples of server computer 620 may include, but are not limited to: a personal computer, a server computer, a series of server computers, a mini computer, and/or a mainframe computer. Server computer 620 may be a web server (or a series of servers) running a network operating system, examples of which may include but are not limited to: Microsoft® Windows Server®; Novell® Netware®; or Red Hat® Linux®, for example. (Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States, other countries or both; Novell and NetWare are registered trademarks of Novell Corporation in the United States, other countries or both; Red Hat is a registered trademark of Red Hat Corporation in the United States, other countries or both; and Linux is a registered trademark of Linus Torvalds in the United States, other countries or both.)

[0061] The instruction sets and subroutines of server NMR process 610, which may be stored on storage device 624 coupled to server computer 620, may be executed by

one or more processors (not shown) and one or more memory architectures (not shown) incorporated into server computer 620. Storage device 624 may include but is not limited to: a hard disk drive; a flash drive, a tape drive; an optical drive; a RAID array; a random access memory (RAM); a read-only memory (ROM); an erasable programmable read-only memory (EPROM); and a Flash memory.

[0062] Server computer 620 may execute a web server application, examples of which may include but are not limited to: Microsoft® IIS, Novell® Web Server™, or Apache® Tomcat®, that allows for access to server computer 620 (via network 622) using one or more protocols, examples of which may include but are not limited to HTTP (i.e., HyperText Transfer Protocol), SIP (i.e., session initiation protocol), and the Lotus® Sametime® VP protocol. (Webserver is a trademark of Novell Corporation in the United States, other countries, or both; Apache and Tomcat are registered trademarks of Apache Software Foundation in the United States, other countries, or both; Lotus and Sametime are registered trademarks of International Business Machine Corporation in the United States other countries, or both). Network 622 may be connected to one or more secondary networks (e.g., network 626), examples of which may include but are not limited to: a local area network; a wide area network; or an intranet, for example.

[0063] In addition/as an alternative to server NMR process 610, one or more client NMR processes (e.g., client NMR processes 612, 614, 616, 618) may reside on and may be executed by one or more client electronic devices (e.g., client electronic devices 628, 630, 632, and/or 634, respectively). Accordingly, in some embodiments, the NMR process may be a server-side process, in which all of the functionality may be performed on server computer 620. Further, the NMR process may be a client-side process, in which all of the functionality may be performed on a client electronic device. In still further embodiments, the NMR process may include a hybrid server-client process, in which at least at least one of the functionality may be performed by a server device and at least at least one of the functionality may be performed by a client device.

[0064] Examples of client electronic devices may include but are not limited to personal computer 628, laptop computer 630, a smartphone 632, notebook computer 634, personal digital assistant (not shown), and an application specific device, a tablet (not shown), a server (not shown), a television (not shown), a smart television (not shown), a media (e.g., video, photo, etc.) capturing device (not shown), and a dedicated network device (not shown). Client electronic devices 628, 630, 632, 634 may each be coupled to network 622 and/or network 626 and may each execute an operating system, examples of which may include but are not limited to Android™, Apple® iOS®, Mac® OS X®; Microsoft® Windows®, Microsoft Windows CEO, Red Hat® Linux®, or a custom operating system. (Android is a registered trademark of Google Inc.; Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States, other countries or both; Apple iOS, Mac and OS X are registered trademarks of Apple Inc. in the United States, other countries or both; Red Hat is a registered trademark of Red Hat Corporation in the United States, other countries or both; and Linux is a registered trademark of Linus Torvalds in the United States, other countries or both).

[0065] The instruction sets and subroutines of client NMR processes 612, 614, 616, 618, which may be stored on storage devices 636, 638, 640, and 642 (respectively) coupled to client electronic devices 628, 630, 632, and 634 (respectively), may be executed by one or more processors (not shown) and one or more memory architectures (not shown) incorporated into client electronic devices 628, 630, 632, 634 (respectively). Storage devices 636, 638, 640, and 642 may include but are not limited to: a hard disk drive; a solid state drive (SSD); a flash drive, a tape drive; an optical drive; a RAID array; a random access memory (RAM); a read-only memory (ROM); an erasable programmable read-only memory (EPROM); and a Flash memory.

[0066] Users 644, 646, 648, and 650 (also variously referred to as “users,” “monitors” 666, “agents” 666, “observers” 666 or “supervisors” 666) may access an NMR process in various ways. For example, at least some of these users may access server NMR process 610 directly through the device on which a client process (e.g.,

client NMR processes 612, 614, 616, 618) is executed, namely client electronic devices 628, 630, 632, 634. Users 644, 646, 648, 650 may access server NMR process 610 directly through network 622 and/or through secondary network 626. Further, server computer 620 (i.e., the computer that executes server NMR process 610) may be connected to network 622 through secondary network 626, as illustrated with phantom link line 652. Users 644, 646, 648, 650 may also access an NMR application in similar ways. NMR process 610 may include one or more user interfaces, such as browsers and textual or graphical user interfaces, through which users 644, 646, 648, 650 may access NMR process 610.

[0067] The various client electronic devices may be directly or indirectly coupled to network 622 (or network 626). For example, personal computer 628 is shown directly coupled to network 622 via a hardwired network connection. Further, notebook computer 34 is shown directly coupled to network 626 via a hardwired network connection. Laptop computer 630 is shown wirelessly coupled to network 622 via wireless communication channel 654 established between laptop computer 30 and wireless access point (i.e., WAP) 56, which is shown directly coupled to network 622. WAP 656 may be, for example, an IEEE 802.11a, 802.11b, 802.11g, 802.11n, Wi-Fi, and/or Bluetooth device that is capable of establishing wireless communication channel 654 between laptop computer 630 and WAP 656. Smartphone 632 is shown wirelessly coupled to network 622 via wireless communication channel 658 established between smartphone 632 and cellular network/bridge 660, which is shown directly coupled to network 622.

[0068] Some or all of the IEEE 802.11x specifications may use Ethernet protocol and carrier sense multiple access with collision avoidance (i.e., CSMA/CA) for path sharing. The various 802.11x specifications may use phase-shift keying (i.e., PSK) modulation or complementary code keying (i.e., CCK) modulation, for example. Bluetooth™ is a telecommunications industry specification that allows, e.g., mobile phones, computers, smartphones, and other electronic devices to be interconnected

using a short-range wireless connection. The short-range wireless connection may include one or more proprietary wireless interfaces and/or protocols. Other forms of interconnection (e.g., Near Field Communication (NFC)) may also be used.

[0069] For the enclosed discussion, client NMR process 616 has been described for illustrative purposes. It will be understood that client NMR process 616 may, for example, interact and/or communicate with server NMR process 610 and/or may be executed within one or more applications that allow for communication with other server and/or client NMR processes. This is not intended to be a limitation of this disclosure, as other configurations are possible (e.g., smartphone NMR process 616 may include stand-alone client processes and/or stand-alone server processes.) For example, some embodiments may include one or more of client NMR processes 612, 614, 618 or server NMR process 610 in place of or in addition to client NMR application 676.

[0070] Computer 620 may include a data store, such as a database (e.g., relational database, object-oriented database, triplestore database, etc.) and may be located within any suitable memory location, such as storage device 624 coupled to computer 620. Any data described throughout the present disclosure may be stored in the data store. In some embodiments, computer 620 may utilize a database management system such as, but not limited to, "My Structured Query Language" (MySQL®) in order to provide multi-user access to one or more databases, such as the above noted relational database. The data store may also be a custom database, such as, for example, a flat file database or an XML database. Any other form(s) of a data storage structure and/or organization may also be used. NMR process 10 may be a component of the data store, a stand-alone application that interfaces with the above noted data store and/or an applet / application that is accessed via client applications 622, 624, 626, and 628. The above noted data store may be, in whole or in part, distributed in a cloud computing topology. In this way, computer 620 and storage device 624 may refer to multiple devices, which may also be distributed throughout the network.

[0071] Computer 620 may execute a NMR application (e.g., NMR application 672). NMR process 610 and/or NMR application 672 may be accessed via client applications 670, 674, 676, and 678. NMR process 610 may be a standalone application, or may be an applet / application / script / extension that may interact with and/or be executed within NMR application 672, a component of NMR application 672, and/or one or more of client applications 670, 674, 676, and 678. NMR application 672 may be a standalone application, or may be an applet / application / script / extension that may interact with and/or be executed within NMR process 610, a component of NMR process 610, and/or one or more of client applications 670, 674, 676, and 678. One or more of client applications 670, 674, 676, and 678 may be a standalone application, or may be an applet / application / script / extension that may interact with and/or be executed within and/or be a component of NMR process 610 and/or NMR application 672. The instruction sets and subroutines of client applications 670, 674, 676, and 678, which may be stored on storage devices 636, 638, 640, 642, coupled to client electronic devices 628, 630, 632, and 634 may be executed by one or more processors (not shown) and one or more memory architectures (not shown) incorporated into client electronic devices 628, 630, 632, and 634.

[0072] One or more of client applications 670, 674, 676, and 678 may be configured to effectuate some or all of the functionality of NMR application 620 (and vice versa). Accordingly, NMR application 672 may be a purely server-side application, a purely client-side application, or a hybrid server-side / client-side application that is cooperatively executed by one or more of client applications 670, 674, 676, and 678 and/or NMR application 20. As one or more of client applications 670, 674, 676, and 678, NMR process 610, and NMR application 620, taken singly or in any combination, may effectuate some or all of the same functionality, any description of effectuating such functionality via one or more of client applications 670, 674, 676, and 678, NMR process 610, NMR application 672, or combination thereof, and any described interaction(s) between one or more of client applications 670, 674, 676, and 678, NMR

process 610, NMR application 672, or combination thereof to effectuate such functionality, should be taken as an example only and not to limit the scope of the disclosure.

[0073] Referring now to FIG. 7, a graphical user interface 700 consistent with embodiments of NMR process 610 is provided. In this particular example, GUI 700 may allow for an agent to control the state of one or more electronic documents. More specifically, in some embodiments, GUI 700 illustrates an example of the document state control that may be displayed to an agent. Here, the agent may be shown an option to lock or reject an electronic document (e.g., immediately below the last page of each document in a multi-document package). The control enables the agent to designate a document as complete by selecting either lock 701 or reject 702. If the locked state 701 is selected, the document may be finished by the signing platform if the meeting completes successfully, is terminated by the agent, and/or fails due to a technical condition beyond the participants' direct control. If the rejected state 702 is selected, the transaction may be completed by the signing platform even if the document was determined by the signing system to require signatures or notarization. In either completed state, neither agent nor signer can modify the document in any way.

[0074] In some embodiments, the signing platform associated with NMR process 610 may determine that all actions required of each meeting participant (e.g., signatures, notarial seals, dates, annotations, etc.) have been fulfilled, and may automatically set the document status to locked without requiring agent input.

[0075] Referring now to FIG. 8, a graphical user interface 800 consistent with embodiments of NMR process 610 is provided. In this particular example, GUI 800 may provide a document rejection feedback dialog display. In some embodiments, if a document is rejected for any reason (e.g. using rejection option 702), the agent may be prompted to provide a reason for the rejection 803 and a detailed explanation 804 so that appropriate diagnostic and corrective measures may be taken by the relevant parties.

[0076] Referring now to FIGS. 9-10, graphical user interfaces 900 and 1000 consistent with embodiments of NMR process 610 are provided. In this particular example, GUI 900 illustrates the notary agent's view of a completed document. A bar appears at the top of the screen indicating the document's completed status 905. A revert status control 906 allows the agent to revert the document to its prior, incomplete state. Immediately below the last page of the document, the state control (see FIG. 7) may be replaced by a strong visual indicator denoting the document's locked status 907. FIG. 10 illustrates the signer's view of a completed document. A bar appears at the top of the screen indicating the document's completed status 1008 (e.g., either locked or rejected).

[0077] Referring now to FIG. 11, graphical user interface 1100 consistent with embodiments of NMR process 610 are provided. In this particular example, GUI 1100 illustrates the notary agent's document selection control. Using GUI 1100 the agent may visually determine the completed status of any document in a multi-document transaction within the status column 1109. This helps agents understand the overall status of the meeting and enables them to navigate directly to incomplete documents.

[0078] Referring now to FIG. 12, graphical user interface 1200 consistent with embodiments of NMR process 610 are provided. In this particular example, GUI 1200 illustrates status indicators on a dashboard containing multiple transactions. Recovered transactions may be clearly indicated with a "partially completed" status 1210. Users may hover on the status indicator 1211 to see how many documents in the transaction were set to a completed status (and subsequently processed when the meeting ended).

[0079] Referring now to FIG. 13, graphical user interfaces 1300 consistent with embodiments of NMR process 610 are provided. In this particular example, GUI 1300 illustrates the list of video recordings associated with a recovered transaction. Each meeting in a recovered transaction appears in an ordered list 1312 with associated start and end timestamps 1313. Each list entry may include the video recording 1314 from the corresponding meeting. The recordings together comprise a complete video archive

of the transaction.

[0080] Referring now to FIG. 14, graphical user interface 1400 consistent with embodiments of NMR process 610 are provided. In this particular example, GUI 1400 illustrates the document list associated with a recovered transaction. A sorting control 1415 allows users to reorder the list based on the meeting in which the document was completed, or the position of each document in the originally prescribed signing order. Each document in the list shows a status indicator (e.g., either completed 1416 or rejected 1417).

[0081] Referring also to FIG. 15, a flowchart 1500 depicting operations consistent with an embodiment of NMR process 610 is provided. Operations may include initiating (1510), using a computing device, an online notarization meeting between a signer and an agent and displaying (1515), at a graphical user interface, a first electronic document associated with the online notarization meeting. Operations may also include allowing (1520), at the graphical user interface, one or more edits to the first electronic document to generate a partially completed first electronic document and displaying (1525), at the graphical user interface, a user selectable option to lock the partially completed first electronic document. In response to receiving a selection of the user selectable option, operations may further include storing (1530) the partially completed first electronic document. Operations may further include determining (1535) that the online notarization meeting has been interrupted and recovering (1540), after the interruption, the partially completed first electronic document.

[0082] While certain embodiments disclosed herein may be based upon a United States notary process and may involve and/or incorporate the laws and regulations according thereto it should be noted that the teachings of the present disclosure may be extended to other jurisdictions as well. Accordingly, embodiments of ESV process 10 and/or NMR process 610 may be used in any suitable country and/or geographical area.

[0083] As will be appreciated by one skilled in the art, aspects of the present disclosure may be implemented as a system, method or computer program product.

Accordingly, aspects of the present disclosure may take the form of an entirely hardware embodiment, an entirely software embodiment (including firmware, resident software, micro-code, etc.) or an embodiment combining software and hardware aspects that may all generally be referred to herein as a “circuit,” “module” or “system.” Furthermore, aspects of the present disclosure may take the form of a computer program product implemented in one or more computer readable medium(s) having computer readable program code embodied thereon.

[0084] Any combination of one or more computer readable medium(s) may be utilized. The computer readable medium may be a computer readable signal medium or a computer readable storage medium. A computer readable storage medium may be, for example, but not limited to, an electronic, magnetic, optical, electromagnetic, infrared, or semiconductor system, apparatus, or device, or any suitable combination of the foregoing. More specific examples (a non-exhaustive list) of the computer readable storage medium would include the following: an electrical connection having one or more wires, a portable computer diskette, a hard disk, a random access memory (RAM), a read-only memory (ROM), an erasable programmable read-only memory (EPROM or Flash memory), an optical drive, a portable compact disc read-only memory (CD-ROM), an optical storage device, a magnetic storage device, or any suitable combination of the foregoing. In the context of this document, a computer readable storage medium may be any tangible medium that can contain, or store a program for use by or in connection with an instruction execution system, apparatus, or device.

[0085] A computer readable signal medium may include a propagated data signal with computer readable program code embodied therein, for example, in baseband or as part of a carrier wave. Such a propagated signal may take any of a variety of forms, including, but not limited to, electro-magnetic, optical, or any suitable combination thereof. A computer readable signal medium may be any computer readable medium that is not a computer readable storage medium and that can communicate, propagate, or transport a program for use by or in connection with an instruction execution system,

apparatus, or device.

[0086] Program code embodied on a computer readable medium may be transmitted using any appropriate medium, including but not limited to wireless, wireline, optical fiber cable, RF, etc., or any suitable combination of the foregoing.

[0087] Computer program code for carrying out operations for aspects of the present disclosure may be written in any combination of one or more programming languages, including an object oriented programming language such as Java, Smalltalk, C++ or the like and conventional procedural programming languages, such as the "C" programming language or similar programming languages. The program code may execute entirely on the user's computer, partly on the user's computer, as a stand-alone software package, partly on the user's computer and partly on a remote computer or entirely on the remote computer or server. In the latter scenario, the remote computer may be connected to the user's computer through any type of network, including a local area network (LAN) or a wide area network (WAN), or the connection may be made to an external computer (for example, through the Internet using an Internet Service Provider).

[0088] Aspects of the present disclosure are described below with reference to flowchart illustrations and/or block diagrams of methods, apparatus (systems) and computer program products according to embodiments of the disclosure. It will be understood that each block of the flowchart illustrations and/or block diagrams, and combinations of blocks in the flowchart illustrations and/or block diagrams, can be implemented by computer program instructions. These computer program instructions may be provided to a processor of a general purpose computer, special purpose computer, or other programmable data processing apparatus to produce a machine, such that the instructions, which execute via the processor of the computer or other programmable data processing apparatus, create means for implementing the functions/acts specified in the flowchart and/or block diagram block or blocks.

[0089] These computer program instructions may also be stored in a non-transient

computer readable medium that can direct a computer, other programmable data processing apparatus, or other devices to function in a particular manner, such that the instructions stored in the computer readable medium produce an article of manufacture including instructions which implement the function/act specified in the flowchart and/or block diagram block or blocks.

[0090] The computer program instructions may also be loaded onto a computer, other programmable data processing apparatus, or other devices to cause a series of operational steps to be performed on the computer, other programmable apparatus or other devices to produce a computer implemented process such that the instructions which execute on the computer or other programmable apparatus provide processes for implementing the functions/acts specified in the flowchart and/or block diagram block or blocks.

[0091] The flowchart and block diagrams in the Figures illustrate the architecture, functionality, and operation of possible embodiments of systems, methods and computer program products according to various embodiments of the present disclosure. In this regard, each block in the flowchart or block diagrams may represent a module, segment, or portion of code, which comprises one or more executable instructions for implementing the specified logical function(s). It should also be noted that, in some alternative embodiments, the functions noted in the block may occur out of the order noted in the figures. For example, two blocks shown in succession may, in fact, be executed substantially concurrently, or the blocks may sometimes be executed in the reverse order, depending upon the functionality involved. It will also be noted that each block of the block diagrams and/or flowchart illustration, and combinations of blocks in the block diagrams and/or flowchart illustration, can be implemented by special purpose hardware-based systems that perform the specified functions or acts, or combinations of special purpose hardware and computer instructions.

[0092] The terminology used herein is for the purpose of describing particular embodiments only and is not intended to be limiting of the disclosure. As used herein,

the singular forms "a", "an" and "the" are intended to include the plural forms as well, unless the context clearly indicates otherwise. It will be further understood that the terms "comprises" and/or "comprising," when used in this specification, specify the presence of stated features, integers, steps, operations, elements, and/or components, but do not preclude the presence or addition of one or more other features, integers, steps, operations, elements, components, and/or groups thereof.

[0093] The corresponding structures, materials, acts, and equivalents of all means or step plus function elements in the claims below are intended to include any structure, material, or act for performing the function in combination with other claimed elements as specifically claimed. The description of the present disclosure has been presented for purposes of illustration and description, but is not intended to be exhaustive or limited to the disclosure in the form disclosed. Many modifications and variations will be apparent to those of ordinary skill in the art without departing from the scope and spirit of the disclosure. The embodiment was chosen and described in order to best explain the principles of the disclosure and the practical application, and to enable others of ordinary skill in the art to understand the disclosure for various embodiments with various modifications as are suited to the particular use contemplated.

[0094] Having thus described the disclosure of the present application in detail and by reference to embodiment(s) thereof, it will be apparent that modifications, variations, and any combinations of embodiment(s) (including any modifications, variations, and combinations thereof) are possible without departing from the scope of the disclosure defined in the appended claims.

What Is Claimed Is:

1. A notarization meeting recovery method performed by a server device, the method comprising:

initiating an online notarization meeting between a signer and an agent, wherein the signer and the agent participate in the online notarization meeting via first and second client devices, respectively;

causing to display, at a graphical user interface of the second client device, an electronic document associated with the online notarization meeting;

generating a partially completed electronic document based on, at least in part, one or more edits made to the electronic document via the graphical user interface of the second client device;

causing to display, at the graphical user interface of the second client device, a user selectable option to transition the partially completed electronic document to a locked state, wherein the graphical user interface is configured to disallow modification to the partially completed electronic document when the partially completed electronic document is in the locked state;

in response to receiving a selection of the user selectable option, storing the partially completed electronic document;

determining, by the processor of the server device, that the online notarization meeting has been interrupted by an issue beyond control of the signer and the agent,

recovering, after the interruption, the partially completed electronic document;
and

automatically processing the partially completed electronic document after the determining comprising indicating a status of the partially completed electronic document.

2. The notarization meeting recovery method of claim 1 further comprising:
causing to display, at the graphical user interface of the second client device, a listing of a plurality of electronic documents, wherein the listing includes the partially completed electronic document and at least one fully completed electronic document, wherein the plurality of electronic documents associated with the online notarization meeting includes the partially completed electronic document and at least one fully completed electronic document.
3. The notarization meeting recovery method of claim 1 wherein the user selectable option includes an option to reject the partially completed electronic document, wherein upon selection of the option to reject, causing to display, at the graphical user interface of the second client device, one or more user selectable reasons for rejection.
4. The notarization meeting recovery method of claim 1 wherein recovering the partially completed electronic document includes recovering a video recording associated with the online notarization meeting.
5. A computer readable storage medium having stored thereon one or more instructions that, when executed by a server device, result in the operations associated with a notarization meeting recovery method according to any of claims 1 to 4.
6. A notarization meeting recovery system comprising:
at least one processor of a server device configured to initiate an online notarization meeting between a signer and an agent, wherein the signer and the agent participate in the online notarization meeting via first and second client devices, respectively, the at least one processor further configured to cause to display, at a graphical user interface of the second client device, an electronic document associated

with the online notarization meeting, the at least one processor further configured to generate a partially completed electronic document based on, at least in part, one or more edits made to the electronic document via the graphical user interface of the second client device, the at least one processor further configured to cause to display, at the graphical user interface of the second client device, a user selectable option to transition the partially completed electronic document to a locked state, wherein the graphical user interface is configured to disallow modification to the partially completed electronic document when the partially completed electronic document is in the locked state, and in response to receiving a selection of the user selectable option, the at least one processor being further configured to enable a storing of the partially completed electronic document, the at least one processor further configured to determine that the online notarization meeting has been interrupted by an issue beyond control of the signer and the agent,

the at least one processor further configured to recover, after the interruption, the partially completed electronic document, the at least one processor further configured to automatically process the partially completed electronic document after the determining comprising indicating a status of the partially completed electronic document.

7. The notarization meeting recovery system of claim 6 wherein the electronic document is one of a plurality of electronic documents associated with the online notarization meeting.

8. The notarization meeting recovery system of claim 6 wherein the user selectable option includes an option to reject the partially completed electronic document.

9. The notarization meeting recovery system of claim 8 wherein upon selection of the option to reject, displaying, at the graphical user interface of the second client device, one or more user selectable reasons for rejection.

10. The notarization meeting recovery system of claim 6 wherein recovering the partially completed electronic document includes recovering a video recording associated with the online notarization meeting.

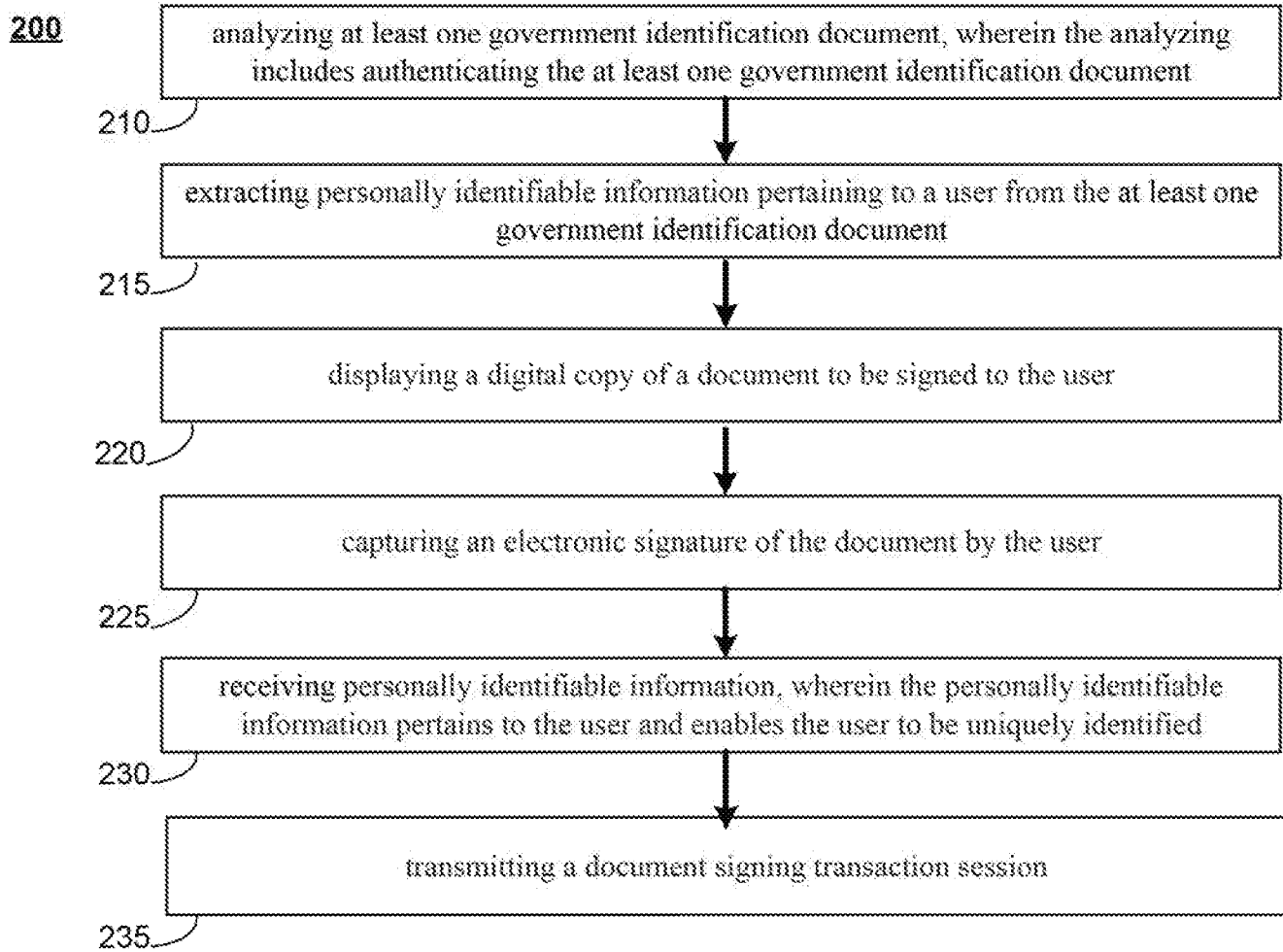


FIG. 2

300

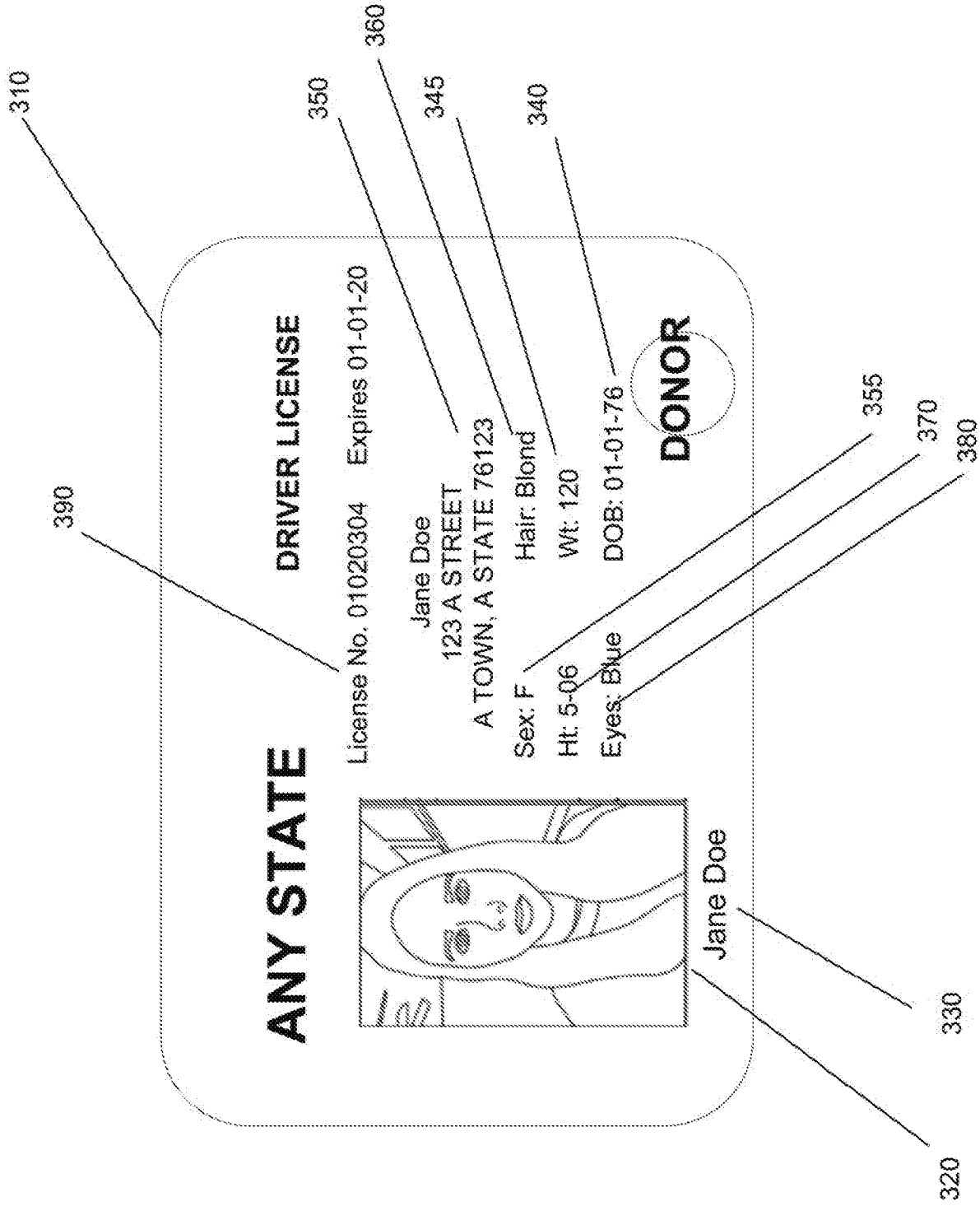


FIG. 3

400

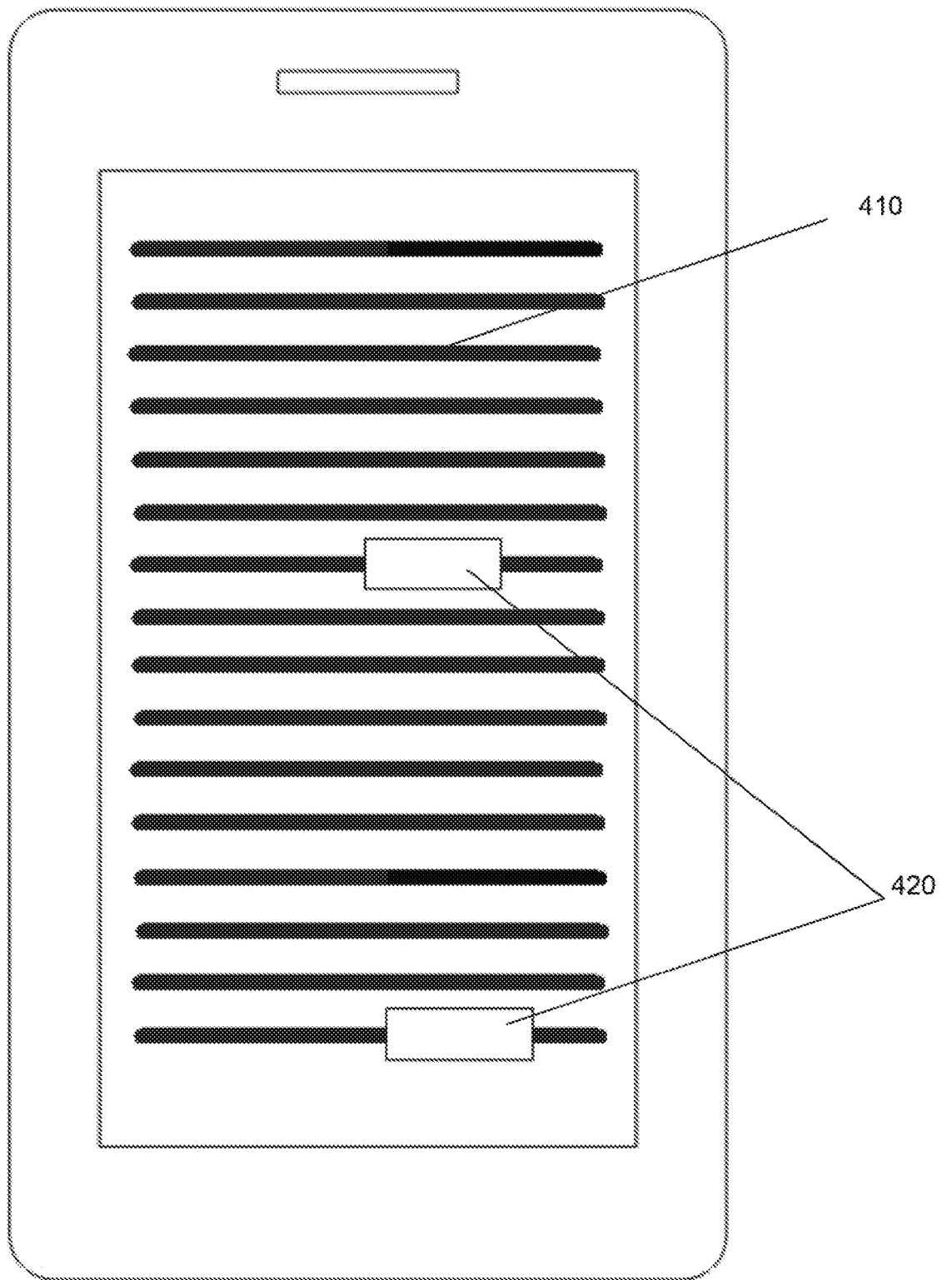


FIG. 4

500

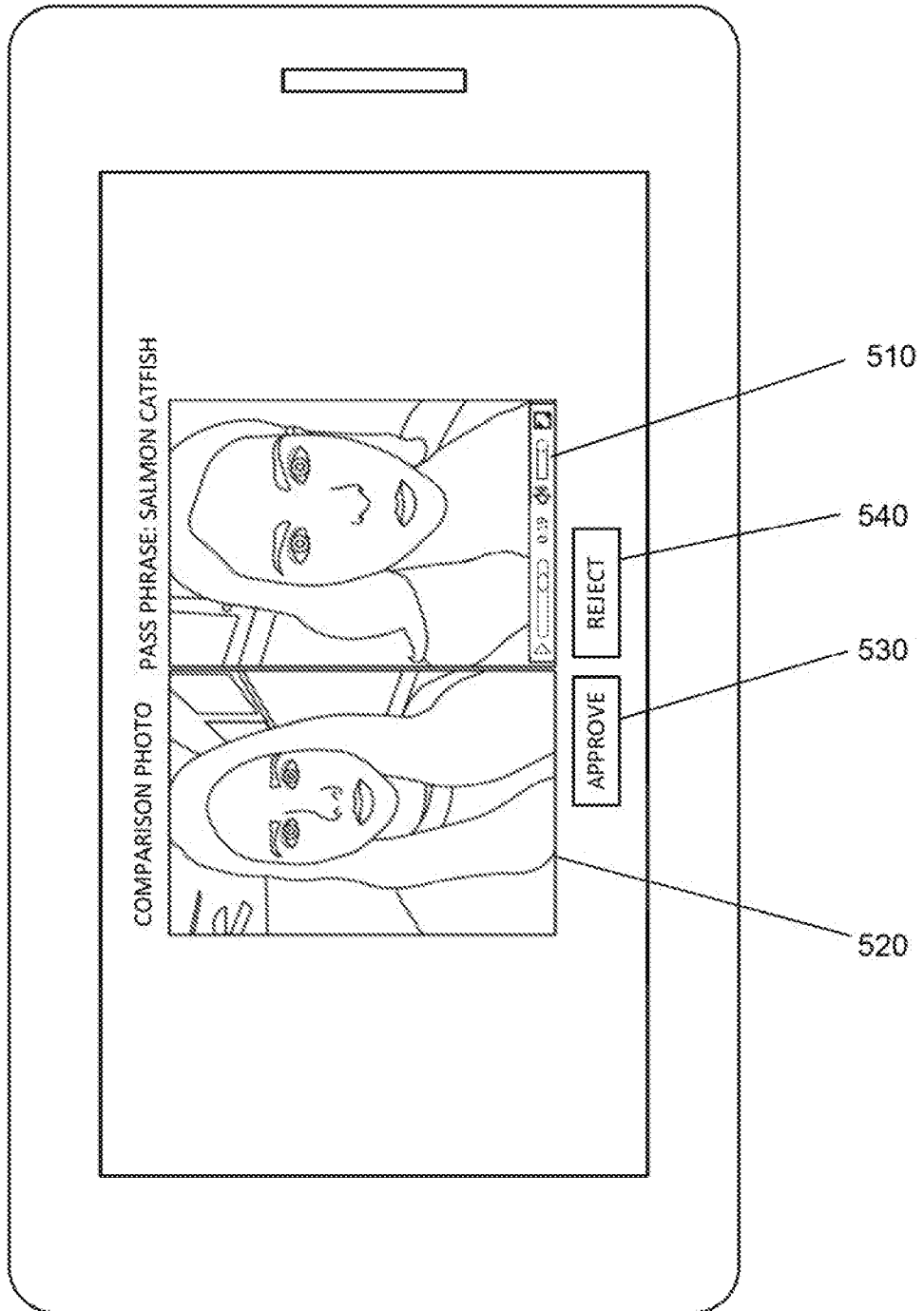


FIG. 5

700

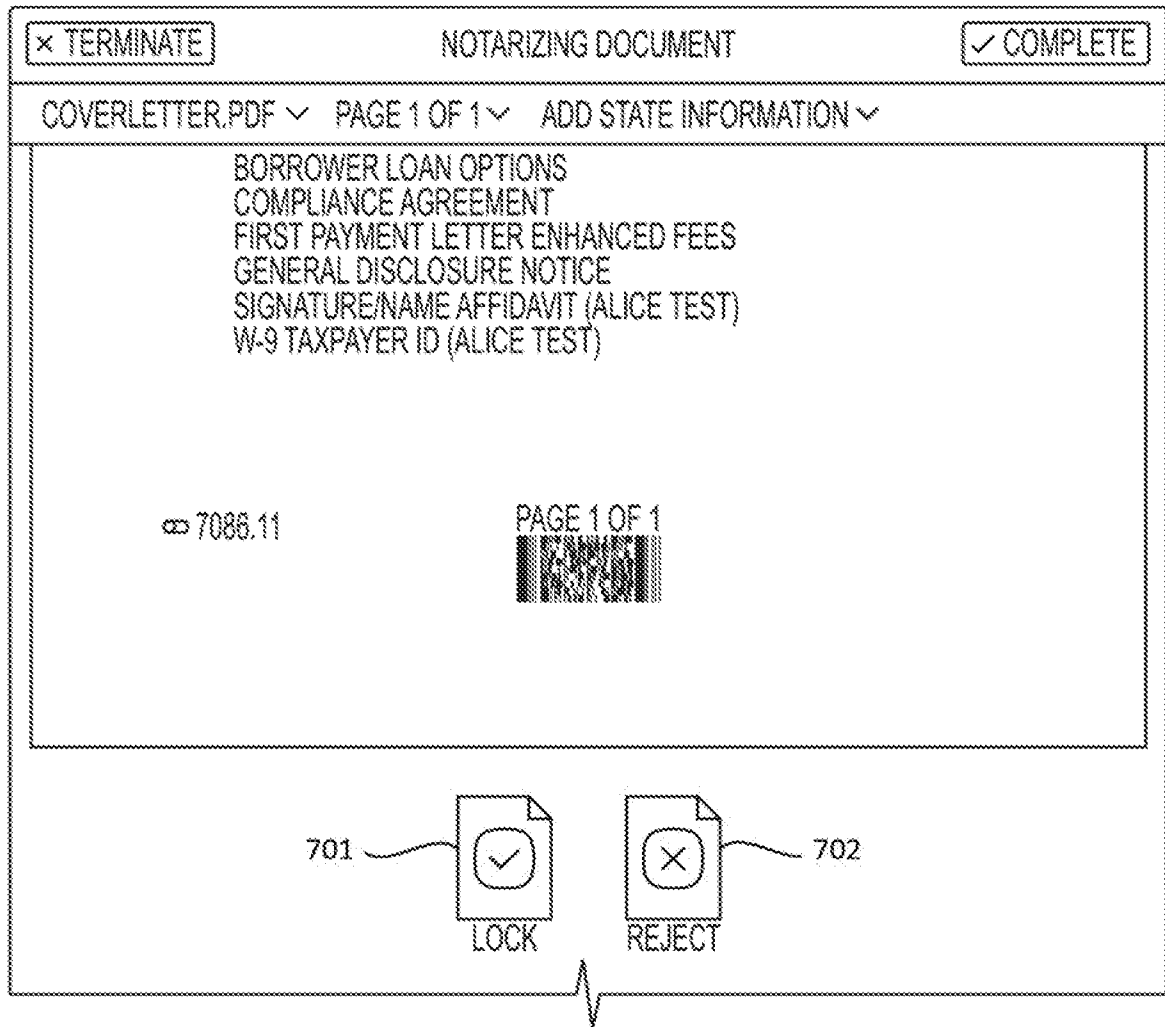


FIG. 7

800

DOCUMENT REJECTION

REASON FOR REJECTING THIS DOCUMENT

DOCUMENT ERROR 803

UNACCEPTABLE DOCUMENT

OTHER

ADD A BRIEF EXPLANATION OF THE ISSUE TO HELP US UNDERSTAND THE REASON FOR REJECTION... 804

SUBMIT REPORT

FIG. 8

900

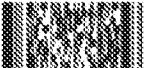
<input type="checkbox"/> TERMINATE	NOTARIZING DOCUMENT	<input checked="" type="checkbox"/> COMPLETE
COVERLETTER.PDF ▾	PAGE 1 OF 1 ▾	ADD STATE INFORMATION ▾
<input checked="" type="checkbox"/> DOCUMENT IS COMPLETED		<input type="checkbox"/> REVERT STATUS
BORROWER LOAN OPTIONS COMPLIANCE AGREEMENT FIRST PAYMENT LETTER ENHANCED FEES GENERAL DISCLOSURE NOTICE SIGNATURE/NAME AFFIDAVIT (ALICE TEST) W-9 TAXPAYER ID (ALICE TEST)		
<input type="checkbox"/> 7086.11	PAGE 1 OF 1 	
<input checked="" type="checkbox"/> LOCKED		

FIG. 9

1000

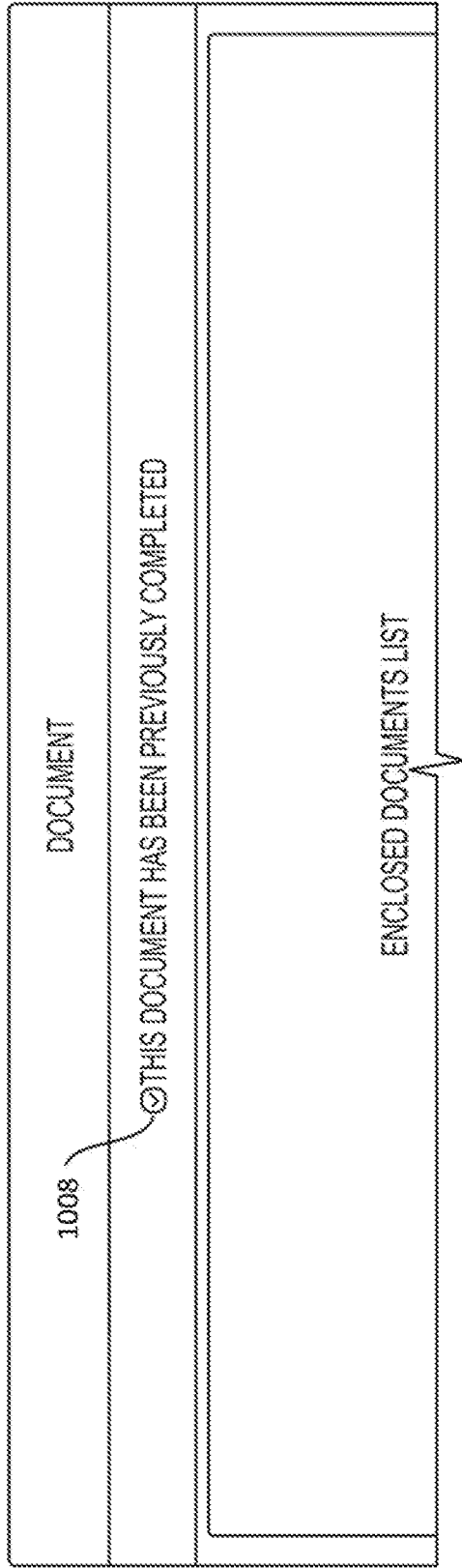


FIG. 10

1100

TERMINATE
NOTARIZING DOCUMENT
 COMPLETE

TEST_VA_ADDENDUM_TO_CD_-_NO_DESIGNATION(1)...

PAGE 1 OF 80

ADD STATE INFORMATION

DOCUMENTS	CUSTOMERS CAN ANNOTATE	ACTIONS REQUIRED	NOTARIZATION REQUIRED	STATUS
COVERLETTER.PDF	X NO	0	X NO	O COMPLETED
POWEROFATTORNEY.PDF	✓ YES	0	✓ YES	O COMPLETED
TEST_VA_PATRIOT_ACT..	X NO	0	✓ YES	O REJECTED
TEST_VA_ADDENDUM...	✓ YES	0	✓ YES	O INCOMPLETE

1109

FIG. 11

1200

EVERYONE | YOUTRANSACTIONSNEW TRANSACTION

ALL0 SENT 0 RECEIVED 1 STARTED 5 COMPLETED

CUSTOMER	DATE	EMPLOYEE	STATUS
JANE DOE	10/15/2017	RK >	PARTIALLY COMPLETED >
JOHN DOE	10/13/2017	RK >	3 OF 5 DOCUMENTS COMPLETE >

1211

FIG. 12

1300

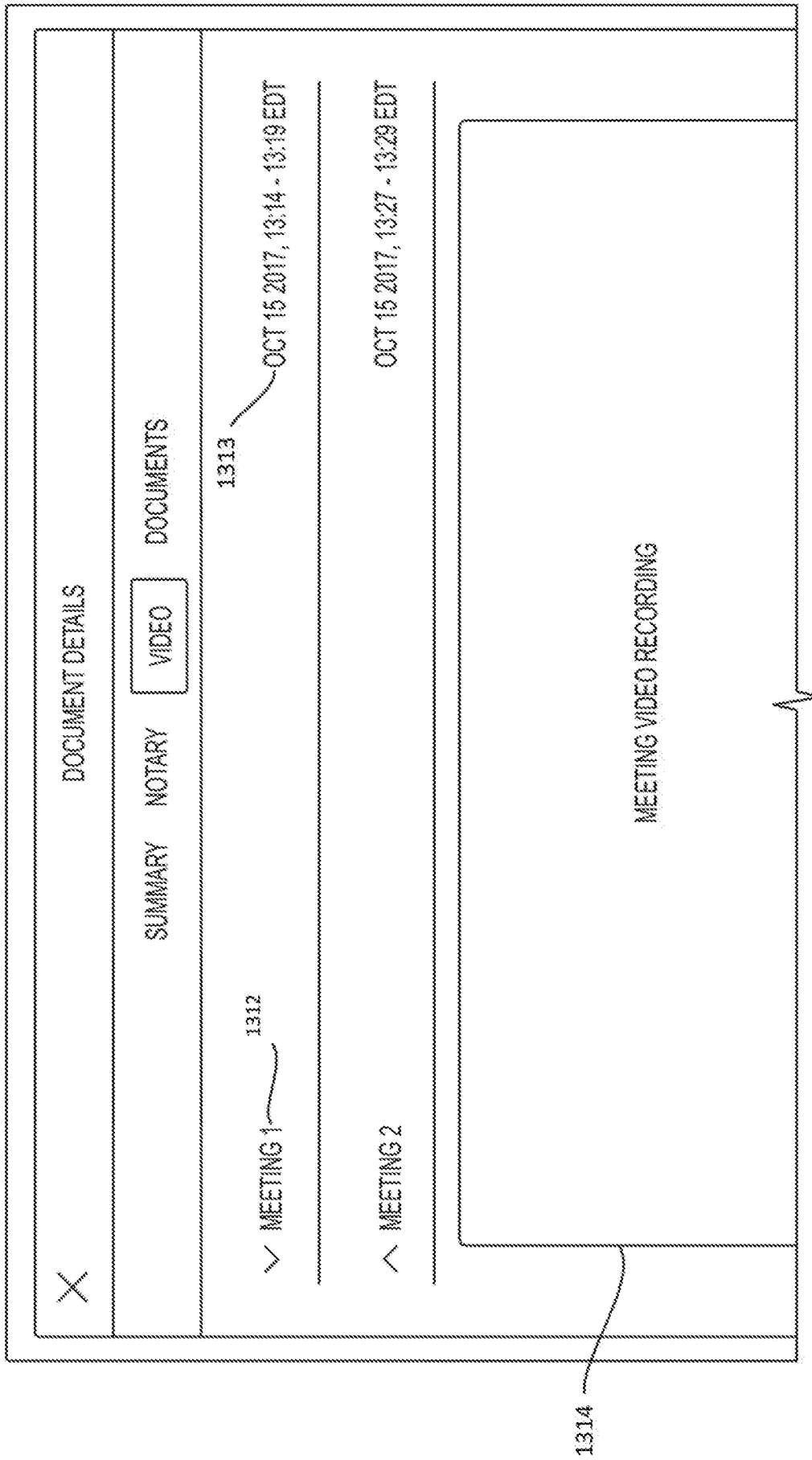


FIG. 13

1400

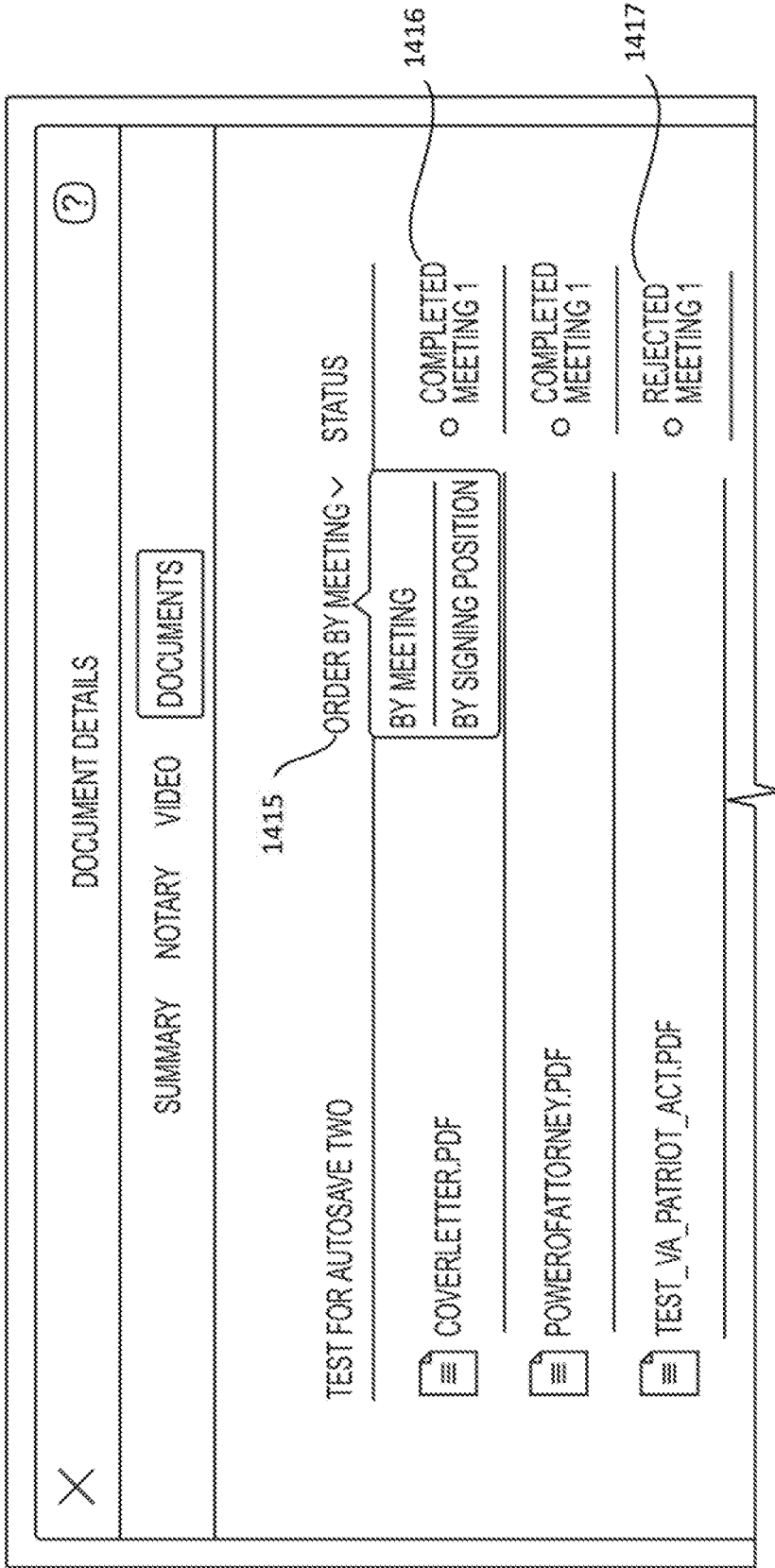


FIG. 14

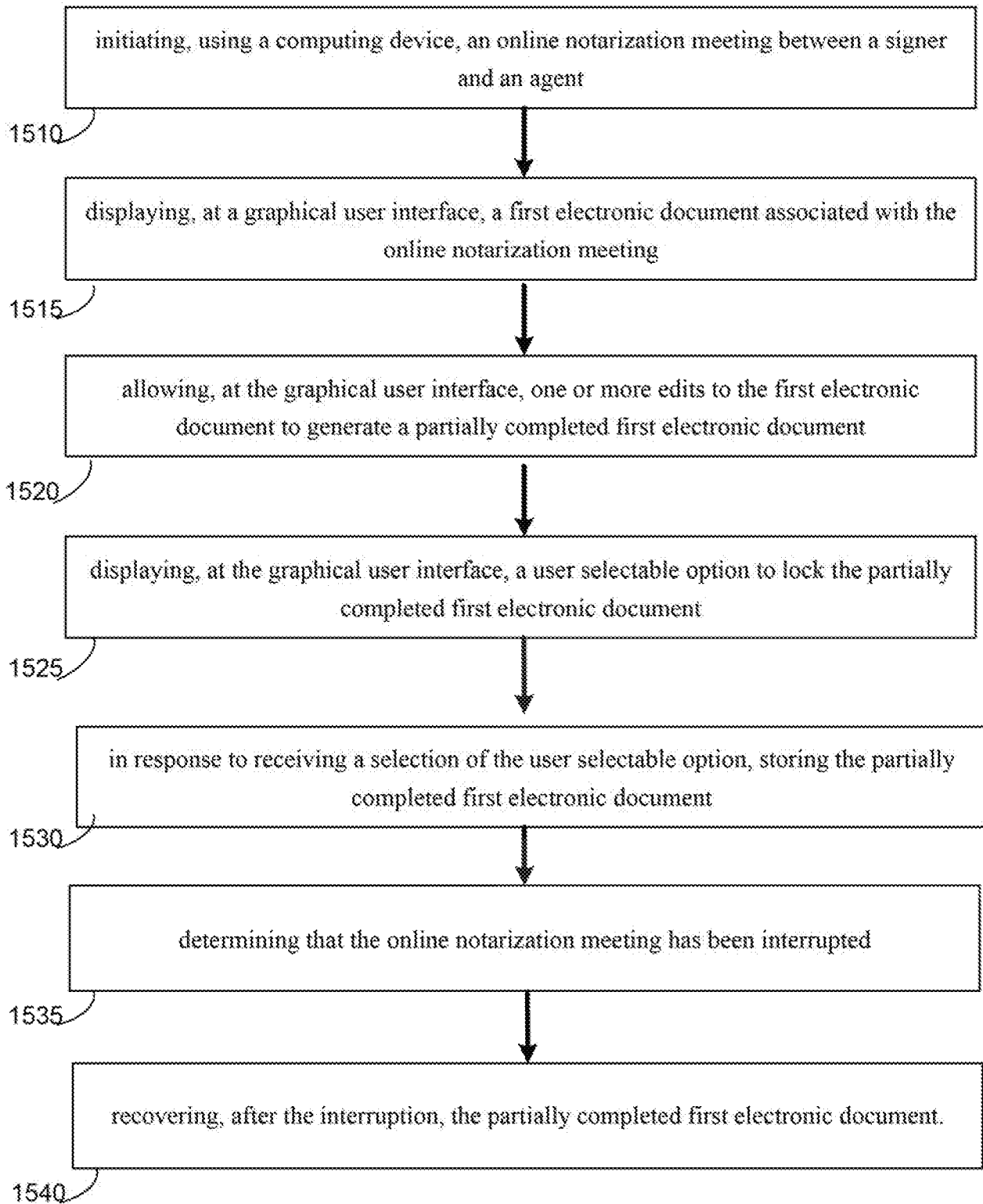
1500

FIG. 15