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(54) **METHOD FOR PROCESSING SOLICITED MULTIMEDIA FILES**

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(58) **Field of Classification Search**
CPC **G06Q 10/10**; **H04L 67/06**; **H04W 4/12**;
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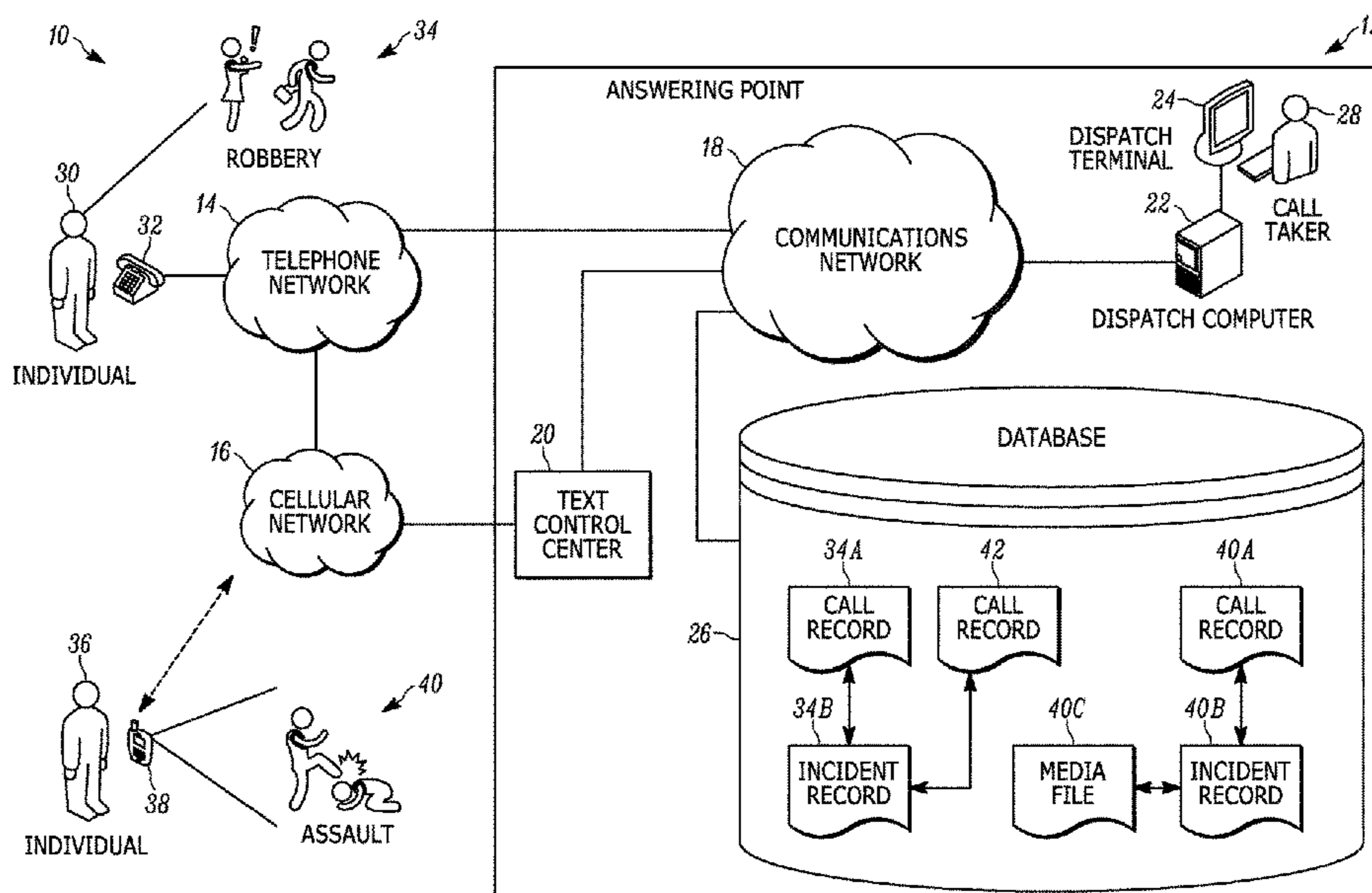
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Primary Examiner — Eron J Sorrell

(57) **ABSTRACT**

Methods and systems for processing multimedia files asso-
ciated with an incident. One method includes receiving a
request to submit a multimedia file associated with the
incident and, in response to receiving the request, transmit-
ting a text message including an identifier of the incident to
a communication device. The method also includes receiv-
ing, at the answering point, a reply to the text message, the
reply including the multimedia file and the identifier, and
storing, at the answering point, the multimedia file including
using the identifier to link the multimedia file to an incident
record for the incident.

39 Claims, 6 Drawing Sheets



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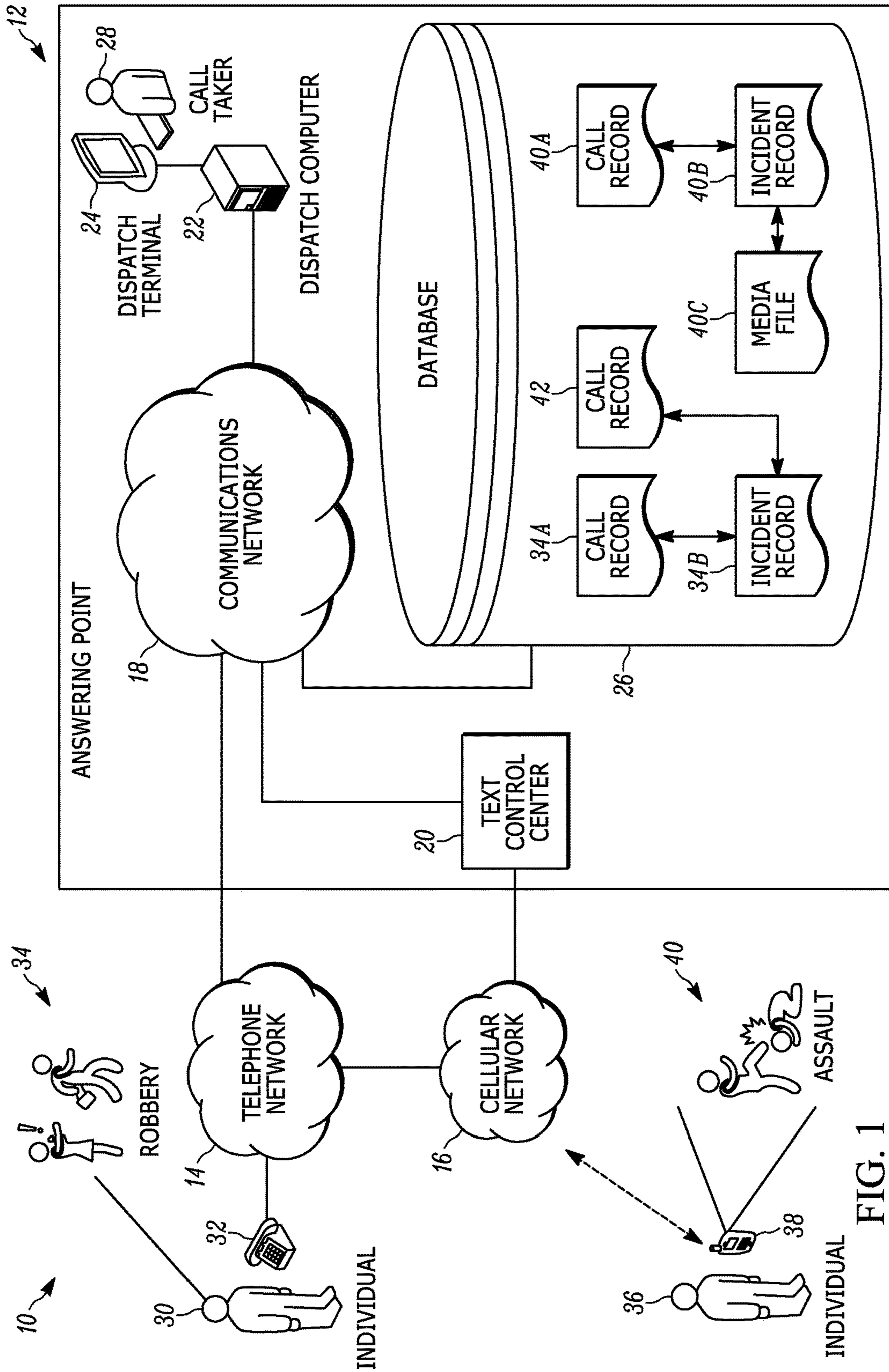


FIG. 1

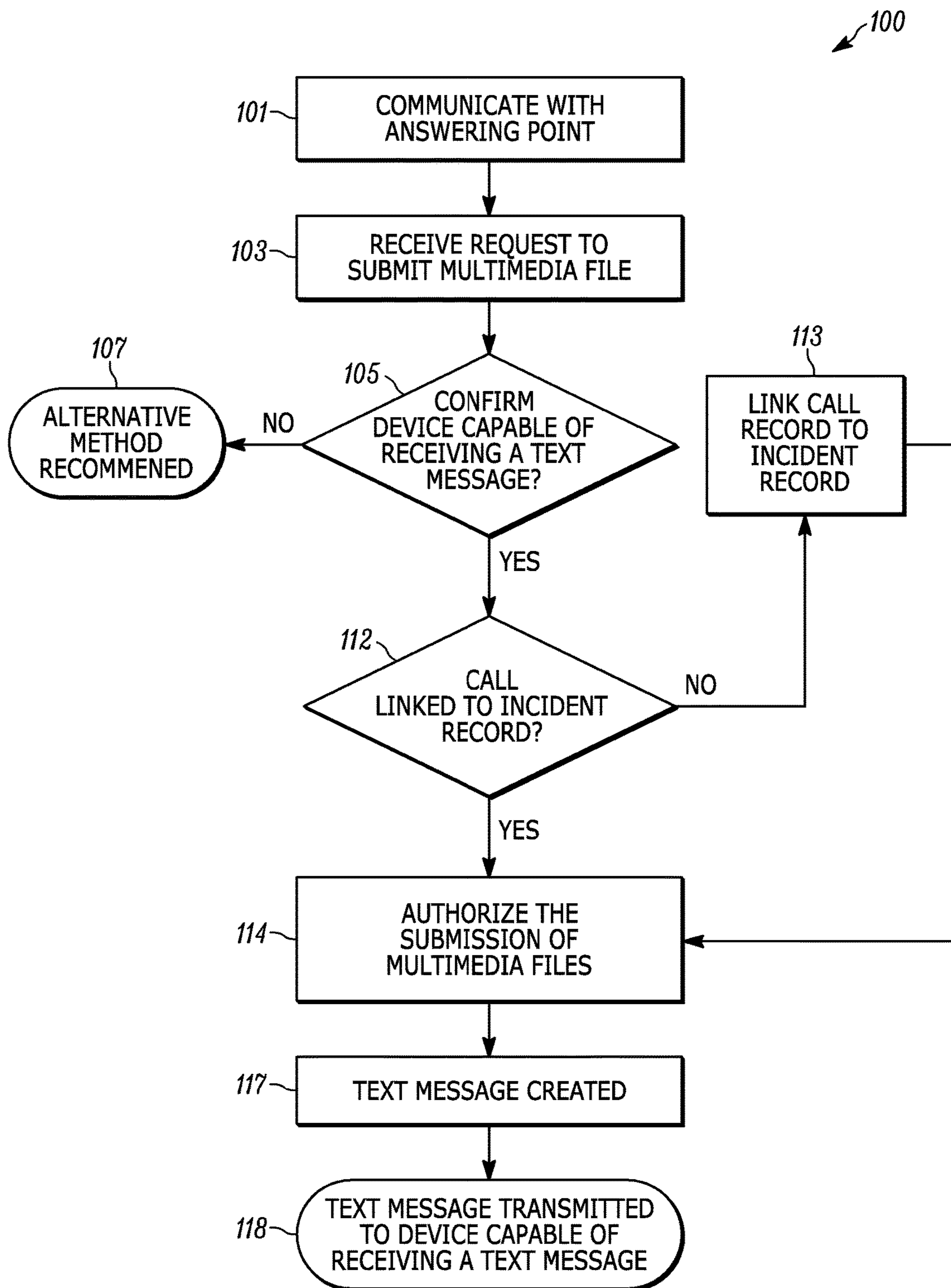


FIG. 2

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Call control

Console Settings Reports

ANI/ALI	Conf Info	SMS ALI	ALI Lookup	Playback
Number:	(111) 101-9052			<input type="button" value="Raw >"/>
Name:	SWANSON, NORA			
Address:	2910 RACINE AVE			
City:	CHICAGO	County:		
State:	IL	ESN:	00132	
Type:	WIRELESS	Class:	RESD	
Carrier:		UNC:	12	
Lat:	41.93476	Lon:	-87.65903	
<input type="checkbox"/> Auto-rebid			<input type="button" value="Rebid"/>	

(111) 101-9052

911 A2003	10-DIGIT	ADMIN
RNGDWN	INTCOM	SMS

00:21 TALK (111) 101-9052

<input type="button" value="Release"/>	<input type="button" value="Hold"/>	<input type="button" value="Std Conf"/>	<input type="button" value="N/H Conf"/>
	<input type="button" value="Park"/>	<input type="button" value="Trans"/>	<input type="button" value="Playback"/>

FIG. 3A

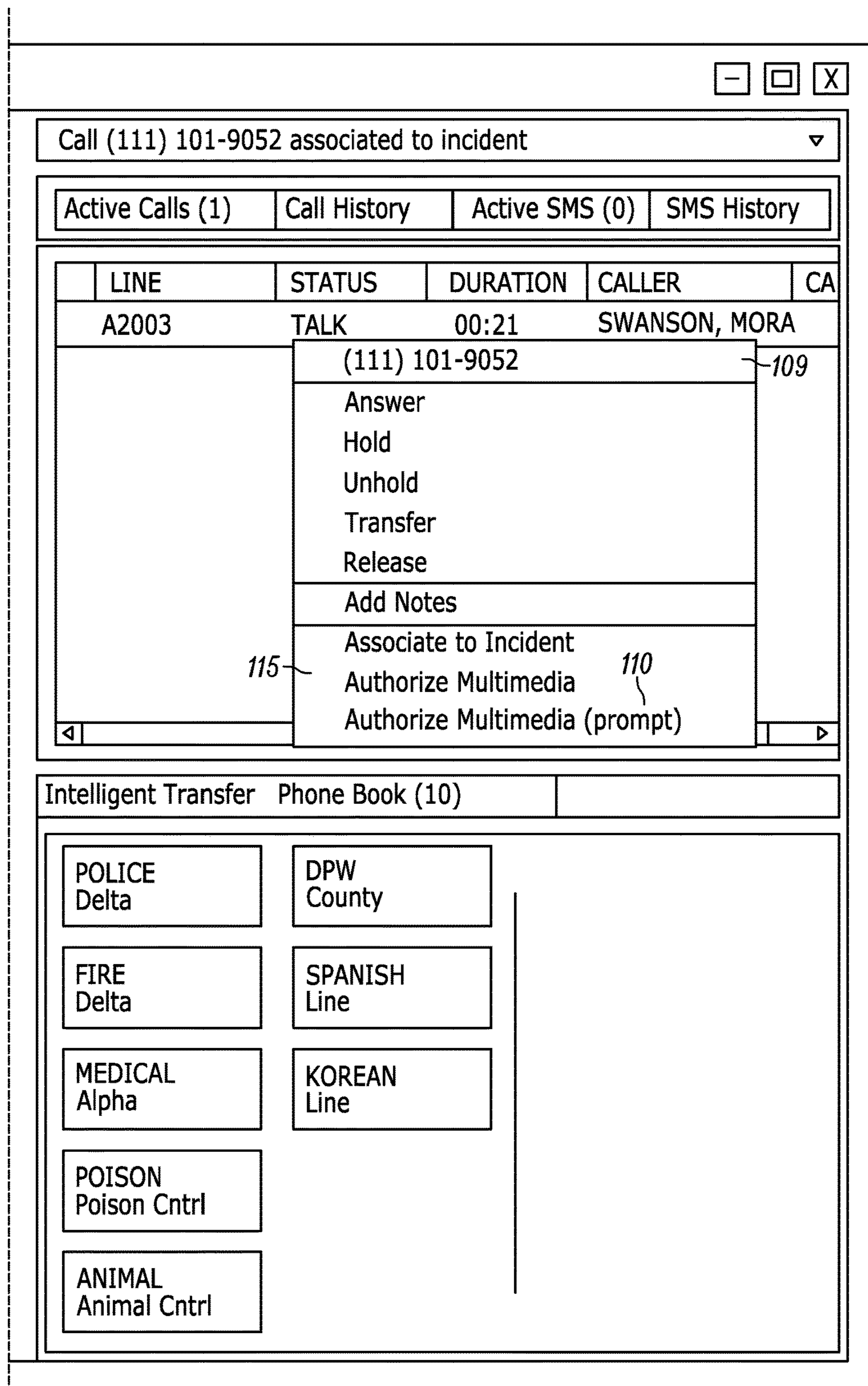


FIG. 3B

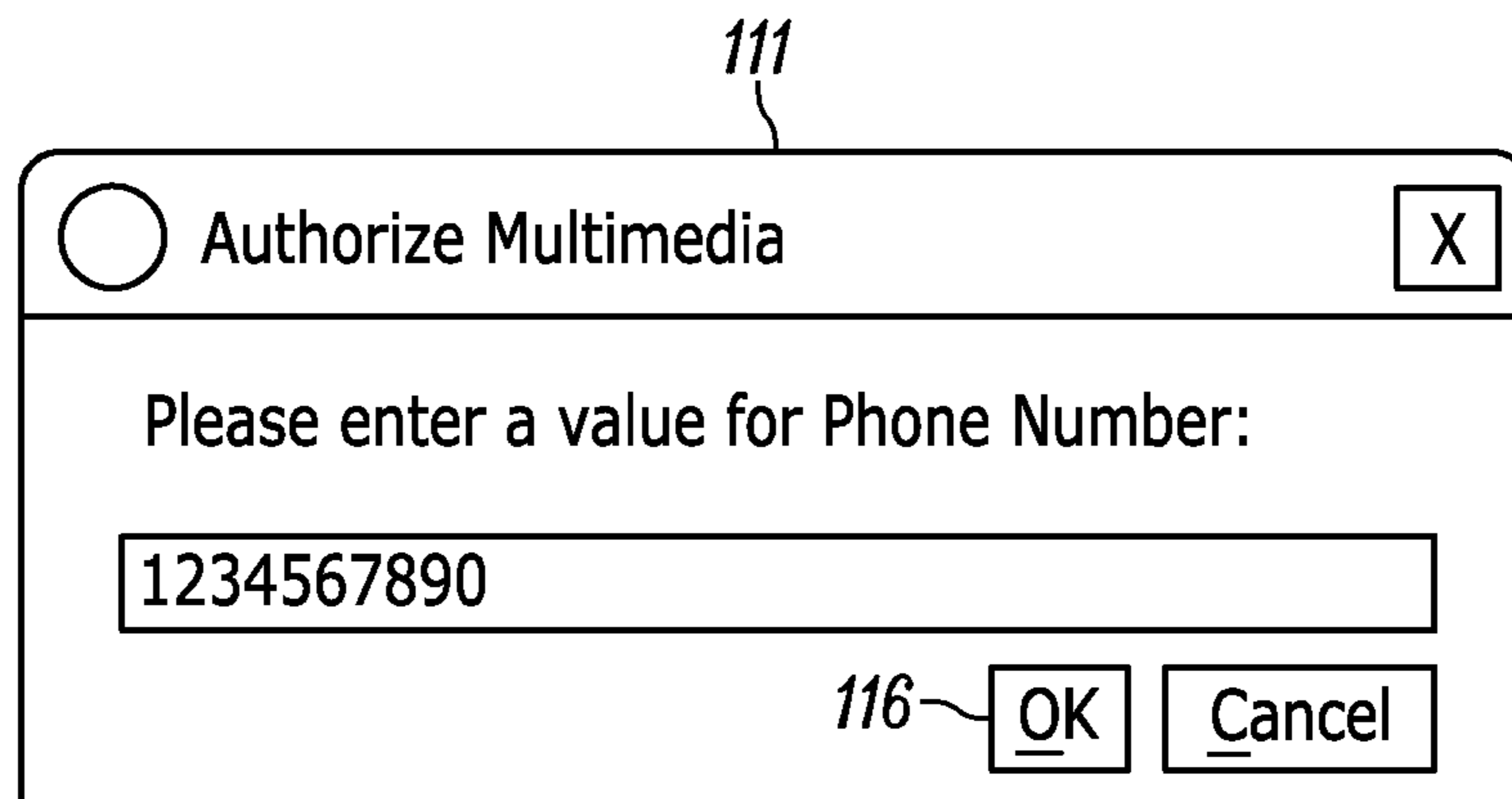


FIG. 4

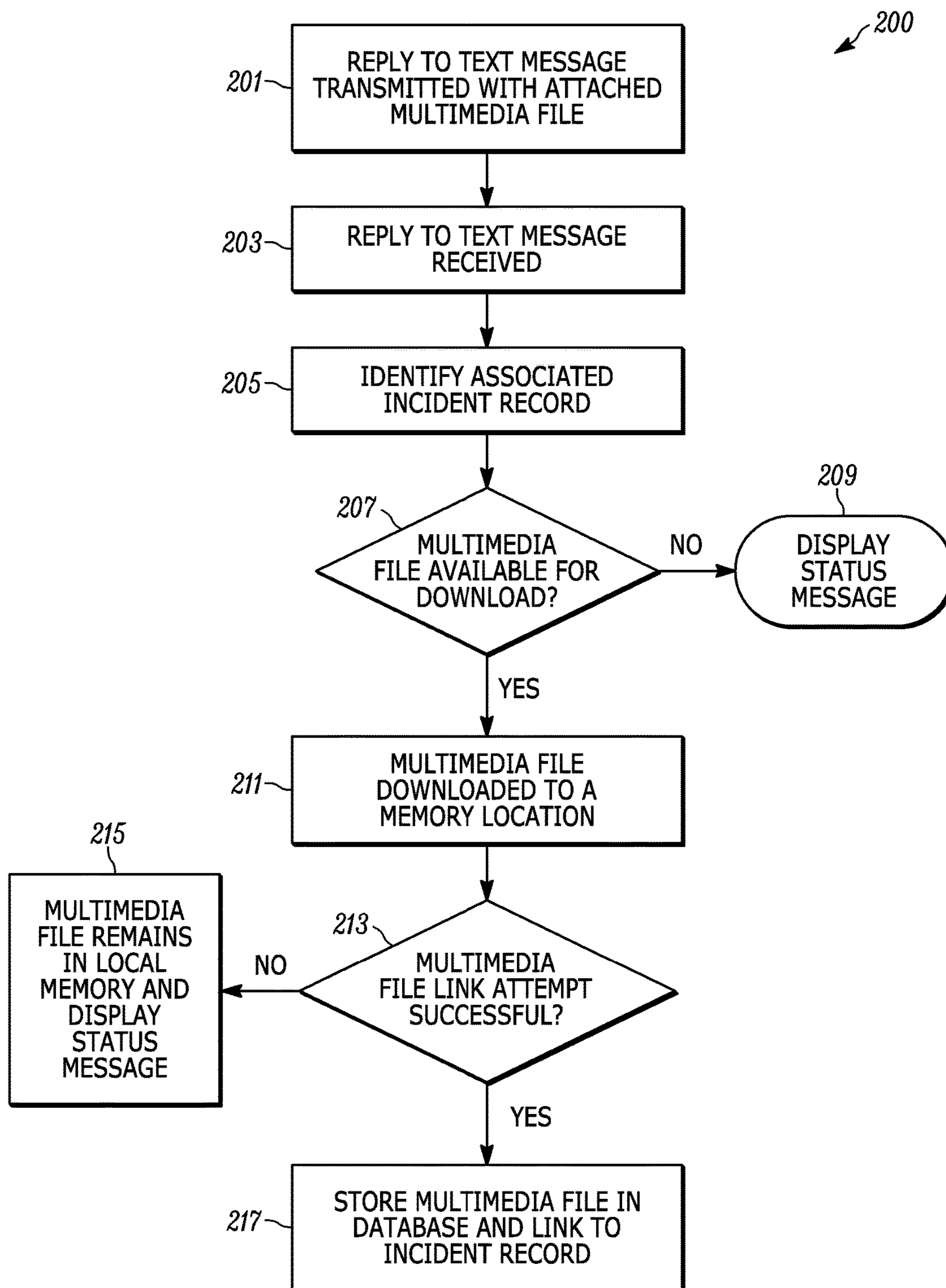


FIG. 5

METHOD FOR PROCESSING SOLICITED MULTIMEDIA FILES

Matter enclosed in heavy brackets [] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue; a claim printed with strikethrough indicates that the claim was canceled, disclaimed, or held invalid by a prior post-patent action or proceeding.

BACKGROUND OF THE INVENTION

Individuals increasingly use portable electronic devices (e.g., cellular phones, tablet computers, and the like) to record multimedia files (e.g., image files, video files, audio files, and combinations thereof) that capture information that may be of interest to various organizations, including but not limited to law enforcement, emergency services, medical service providers, insurance companies, customer service centers, help desk centers, event organizations, and the like. Accordingly, individuals often contact an answering point provided by one of these organizations and ask to submit these multimedia files. Organizations, after confirming the legitimacy of the request, may be disposed to accept the multimedia files because they may contain useful information. For example, within the context of a public safety answering point (e.g., a next generation 911 answering point), the multimedia file may contain evidence for an investigation, information that may aid deployment of emergency services, or other useful information.

Current procedures for authorizing, receiving, reviewing, and logging solicited multimedia received by an answering point include a patchwork of processes, which cannot efficiently handle the increasing number of multimedia file solicitations from individuals. For example, in existing systems, individuals may be instructed to submit multimedia files via email. These files are then manually processed. For example, the files may be scanned for malicious or inappropriate content, reviewed to determine their value, and associated with a related data record. Follow-up responses in the form of text messages, emails, and/or telephone calls may also be required if the individual does not include the information needed to identify the related data record. For example, the more time that passes between an initial contact with an answering point and the submission of a multimedia file, the more difficult it often becomes to associate the submitted file with a related data record. Accordingly, existing systems and methods rely on a number of manual steps that could not only become burdensome to answering point personnel but also prove ineffective as the number of solicitations increases.

Accordingly, there is a need for a method for processing solicited multimedia files.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

The accompanying figures, where like reference numerals refer to identical or functionally similar elements throughout the separate views, together with the detailed description below, are incorporated in and form part of the specification, and serve to further illustrate embodiments of concepts that include the claimed invention, and explain various principles and advantages of those embodiments.

FIG. 1 is a block diagram of a system for processing solicited multimedia files in accordance with some embodiments.

FIG. 2 is a flowchart of a method of operating an answering point to authorize a multimedia file submission in accordance with some embodiments.

FIG. 3A and FIG. 3B illustrate a graphical user interface for providing authorization of a multimedia file submission in accordance with some embodiments.

FIG. 4 is an illustration of a dialog box for providing authorization of a multimedia file submission in accordance with some embodiments.

FIG. 5 is a flowchart of a method of operating an answering point to link a multimedia file to an incident record in accordance with some embodiments.

Skilled artisans will appreciate that elements in the figures are illustrated for simplicity and clarity and have not necessarily been drawn to scale. For example, the dimensions of some of the elements in the figures may be exaggerated relative to other elements to help to improve understanding of embodiments of the present invention.

The apparatus and method components have been represented where appropriate by conventional symbols in the drawings, showing only those specific details that are pertinent to understanding the embodiments of the present invention so as not to obscure the disclosure with details that will be readily apparent to those of ordinary skill in the art having the benefit of the description herein.

DETAILED DESCRIPTION OF THE INVENTION

Some exemplary embodiments of the invention include a method for operating an answering point to process multimedia files associated with an incident. In one embodiment the method includes receiving a request to submit a multimedia file associated with the incident and, in response to receiving the request, transmitting a text message including an identifier of the incident to a communication device. The method also includes receiving, at the answering point, a reply to the text message, the reply including the multimedia file and the identifier, and storing, at the answering point, the multimedia file including using the identifier to link the multimedia file to an incident record for the incident.

FIG. 1 schematically illustrates a system **10** for processing solicited multimedia files from individuals who contact an answering point regarding an incident. Some embodiments of the system **10** may include systems associated with an insurance company that receives multimedia files relating to insurance claims, a medical service provider that receives multimedia files from relating to a medical condition, a help desk center that receives multimedia files relating to a technical support request, and the like. In particular, as used herein, the term “incident” can include any type of event or situation, for which an organization wants to control multimedia file submissions and provide a mechanism for linking multimedia file submissions with other information related to the event or situation.

As shown in FIG. 1, for illustrative purposes only, the system **10** could be a next generation 911 (NG911) system. However, as noted above, the system **10** may be any similar system for processing incident information. The system **10** includes an answering point **12**, a telephone network **14**, and a cellular network **16**. Within a next generation 911 system, the answering point **12** may be referred to as a “public safety answering point.” The answering point **12** includes a communications network **18**, a text control center **20**, a dispatch

computer 22, a dispatch terminal 24, and a database 26. For ease of description, the system 10 illustrated in FIG. 1 includes a single answering point 12, telephone network 14, and cellular network 16. Other embodiments may include more than one answering point 12, telephone network 14, or cellular network 16. Similarly, some embodiments may include an answering point 12 with more than one communications network 18, text control center 20, dispatch computer 22, dispatch terminal 24, or database 26.

A call taker 28 may interact with the dispatch terminal 24 to answer communications received at the answering point 12 and access and modify data stored in the database 26. Within a next generation 911 system, the answering point 12 may perform computer aided dispatch (CAD) operations for law enforcement and other emergency services. Computer aided dispatch operations are known, and, therefore, for ease of description, they will not be described in detail. In alternative embodiments, the answering point 12 is configurable to perform computerized customer service and call center operations.

Communications received at the answering point 12 may include voice communications (i.e., voice calls) received over the telephone network 14 and the cellular network 16. The telephone network 14 includes the public switched telephone network (PSTN). Additionally or alternatively, in some embodiments, the telephone network 14 includes one or more voice over IP (VoIP) telephone networks. Also, in some embodiments, as an alternative to or in addition to the telephone network 14 and the cellular network 16, the answering point 12 receives other types of voice communications, including, for example, two-way radio communications and citizens band (CB) radio communications. Accordingly, in some embodiments, the answering point 12 communicates with communication networks in addition to the telephone network 14 and the cellular network 16.

Similarly, communications received at the answering point 12 may include data communications, including, for example, short message service (SMS) messages and multimedia message service (MMS) messages (collectively referred to herein as "text messages"), email messages, pages, instant messages, and the like. Accordingly, in some embodiments, the answering point 12 communicates with communication networks in addition to the telephone network 14 and the cellular network 16, such as the Internet or other public or private data networks.

The communications network 18 electrically interconnects the dispatch computer 22, the database 26, and other electronic components (not shown) included in the answering point 12. The communications network 18 also connects the answering point 12 to the telephone network 14. As illustrated in FIG. 1, in some embodiments, the answering point 12 communicates with the cellular network 16 through the telephone network 14. In other embodiments, the answering point 12 (e.g., through the communications network 18) communicates directly with the cellular network 16. As noted above, in some embodiments, the communications network 18 also connects the answering point 12 with other communication networks, such as a two-way radio communication network, a citizens band communication network, the Internet, or other private or public networks. Furthermore, in some embodiments, the communications network 18 connects the answering point 12 to another answering point.

The communications network 18 passes voice and data traffic to, from, and within the answering point 12 using suitable network protocols and network equipment. The communications network 18 may also originate and termi-

nate voice calls over the telephone network 14 and the cellular network 16. In some embodiments, the communications network 18 also transmits and receives text messages using the text control center 20 ("TCC") and the cellular network 16. In these situations, the text control center 20 acts as a gateway between the answering point 12 and the cellular network 16 by exchanging text messages (including performing any necessary conversions) between the answering point 12 and the cellular network 16. In some embodiments, functionality described herein as being performed by the text control center 20 can be performed by the dispatch computer 22 or vice versa. For example, in some embodiments, the text control center 20 can be incorporated into the dispatch computer 22 or another component of the answering point 12.

In some embodiments, the dispatch computer 22 includes, among other things, a processor (e.g., a microprocessor or another suitable programmable device), a memory (i.e., a computer-readable storage medium), and an input/output interface (not shown). The processor, the memory, and the input/output interface, as well as the other various modules are connected by one or more control or data buses. The use of control and data buses for the interconnection between and communication among the various modules and components would be known to a person skilled in the art in view of the invention described herein.

The memory may include a program storage area and a data storage area. The processor is connected to the memory and executes computer readable instructions ("software") stored in a random access memory (RAM) of the memory (e.g., during execution), a read only memory (ROM) of the memory (e.g., on a generally permanent basis), or another non-transitory computer readable medium. For example, software for processing solicited multimedia files, as described in below, may be stored in the memory. Also, within a next generation 911 system, software for computer aided dispatch operations may be stored in the memory. The software may include firmware, one or more applications, program data, filters, rules, one or more program modules, and/or other executable instructions. The processor is configured to retrieve software from the memory and execute the software.

The dispatch computer 22 is electrically connected to the dispatch terminal 24. The dispatch terminal 24 includes one or more input devices, output devices, or input and output devices including, for example, one or more displays, keyboards, keypads, mice, joysticks, touchscreens, speakers, microphones, and headsets. The dispatch computer 22 receives input from and provides output to the call taker 28 through the dispatch terminal 24. The dispatch computer 22 and the dispatch terminal 24 are capable of originating and terminating voice calls and text message communications, either alone, or by interfacing with network equipment (not shown) in the communications network 18.

The database 26 electronically stores information regarding incidents (e.g., incident records). For example, within a next generation 911 system, the database 26 may store information relating to aided dispatch operations (e.g., information relating to emergency events and public safety events). The dispatch computer 22 is configurable to read and write such information to and from the database 26. In the illustrated embodiment, the database 26 is a database housed on a suitable database server (not shown) and accessible by the dispatch computer 22 over the communications network 18. In alternative embodiments, the database 26 may be located on a computer external to the

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answering point 12 and accessible by the dispatch computer 22 over one or more networks.

The call taker 28 may be a dispatcher trained to handle incident communications. For example, within a next generation 911 system, the call taker 28 may be a public safety dispatcher trained to handle emergency communications. As noted above, these communications can include voice communications (e.g., voice calls) and data communications (e.g., text messages, email messages, pages, and the like). Based on the received communications, the call taker 28 uses the dispatch terminal 24 to manually dispatch the appropriate services to handle incidents reported by individuals. Alternatively or in addition, the dispatch computer 22 may be configured to automatically dispatch appropriate services. The dispatch computer 22 and the dispatch terminal 24 may also receive data input by the call taker 28, which is saved to the database. Generally, regardless of how or when an individual communicates with the answering point 12 about an incident, information about the communication is stored in the database 26.

For example, as illustrated in FIG. 1, an individual 30 may place a voice call to the answering point 12 using a communication device, such as a telephone 32 connected to the telephone network 14. For example, as an example with a next generation 911 system, an individual 30 may use the telephone 32 to report a robbery 34. The telephone 32 initiates the voice call, which is routed through the telephone network 14 to the answering point 12. The dispatch computer 22 generates and stores one or more records in the database 26 based on the voice call. For example, in some embodiments, the dispatch computer 22 generates a call record for each communication received by the answering point 12. The dispatch computer 22 may also modify a created call record in response to commands received from the call taker 28 through the dispatch terminal 24 (e.g., change information included in a call record or add information to a call record). In other embodiments, dispatch computer 22 also generates a call record in response to commands received from the call taker 28 through the dispatch terminal 24. Accordingly, each call record may include information generated by the dispatch computer 22 and any information received from the call taker 28 through the dispatch terminal 24.

For example, as illustrated in FIG. 1, a call record 34A is generated based on the voice call received from the telephone 32. The database 26 also stores an incident record 34B that is associated with the incident (e.g., the robbery 34) reported by the individual 30. The incident record 34B can be generated (e.g., automatically or in response to a manual initiation by the call taker 28) when a first communication is received for an incident. For example, within the context of a next generation 911 system, if the voice call originated from the telephone 32 contains the first communication received regarding the robbery 34, the incident record 34B is created when the voice call is received. As described below, if the answering point 12 receives a subsequent communication relating to a previously-reported incident, the answering point 12 generates a new call record for the communication and links the new call record with the existing incident record 34B (i.e., rather than generating a new incident record). In some embodiments, a call record may be linked to multiple incident records. For example, if a single voice call relates to multiple incidents, a call record associated with the voice call may be linked to multiple incident records. Also, in some embodiments, an incident record may be created prior to any communications received by the answering point 12 (e.g., an incident record can be

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created for each insurance claim submission, each event provided by an event organizer, each piece of technology serviced by a help desk organization, and the like.

Records stored in the database 26 include unique identifiers. For example, the call record 34A includes a unique call identifier, and the incident record 34B includes a unique incident identifier. The call record 34A is linked to the incident record 34B using the call identifier and the incident identifier. For example, the call record 34A can store the incident identifier of the incident record 34B and/or the incident record 34B can store the call identifier of the call record 34A. Alternatively or in addition, the dispatch computer 22 or the database 26 can store a mapping that links unique call identifiers to unique incident identifiers. The dispatch computer 22 uses the mapping to identify one or more unique incident identifiers linked to a particular call identifier.

As another example, an individual 36 may place a voice call to the answering point 12 using a communication device, such as a wireless device 38 connected to the cellular network 16. For example, within a next generation 911 system, the individual 36 may use the wireless device 38 to report an assault 40. The wireless device 38 initiates the voice call, which is routed to the answering point 12 (e.g., through the telephone network 14 and the cellular network 16). A call record 40A is created for the voice call and an incident record 40B is created (e.g., if an incident record is not already stored in the database 26). Both the call record 40A and the incident record 40B are stored in the database 26. Alternatively, the wireless device 38 may transmit a text message to the answering point 12 (i.e., rather than a voice call) regarding the assault 40, the text message is routed through the cellular network 16 to the text control center 20. The text control center 20 routes the text message to the communications network 18. A call record is generated and stored for the received text message as described above for the voice call. A call record for a received text message may include information regarding the text message including, for example, information regarding the individual 36 or the wireless device 38, time and date information, the text message itself, and the like.

An incident may be witnessed and reported by many individuals. Therefore, in some situations, many individuals may contact the answering point 12 regarding the same incident. Therefore, in some embodiments, a new call record is created for each communication received by the answering point 12 for an incident and each new call record is linked to a single incident record. In particular, the dispatch computer 22 may be configured to update an existing incident record with new information received from communications received subsequent to the creation of the incident record. For example, as illustrated in FIG. 1 within the context of a next generation 911 system, if another phone call or text message relating to the robbery 34 is received by the answering point 12, a new call record 42 is created, which is linked to the existing incident record 34B associated with the robbery 34. The existing incident record 34B may also be updated with information received from the subsequent communication relating to the robbery 34.

The wireless device 38 wirelessly communicates with the cellular network 16 and, in some embodiments, wirelessly communicates voice calls and text messages. As illustrated, the wireless device 38 is a smart phone. In alternative embodiments, the wireless device 38 may be, for example, a tablet, personal digital assistant (PDA), a smart watch, or other device that includes, or can be connected to, a network

modem or components, which enable wireless network communications (such as a processor, memory, amplifier, antenna, or the like).

The wireless device **38** also records multimedia files including, for example, video files, audio files, and image files. Accordingly, in some situations, the wireless device **38** may record a multimedia file capturing data relating to an incident. The database **26** stores such multimedia files and links the multimedia files to incident records (e.g., similar to how a call record is linked to an incident record). For example, as illustrated in FIG. 1, a multimedia file **40C** (e.g., a video file) capturing data regarding an incident (e.g., the assault **40**) is linked to the corresponding incident record **40B**. Similar to a call record, a multimedia file stored in the database **26** may be linked to multiple incident records. The database **26** may also store metadata associated with a multimedia file (e.g., within the multimedia file, a linked call record, the linked incident record, and/or another data record). The metadata may include a time and date a multimedia file was created, a geographic location of the device when a multimedia file was created, and the like.

Individuals may offer to provide (e.g., during an initial communication with the answering point **12** or as an offer made after or unrelated to an initial communication) recorded multimedia files containing data relating to incidents. To handle these multimedia files, the dispatch computer **22** is configured to request, receive, and link multimedia files with incident records stored in the database **26**.

The process for requesting, receiving, and automatically associating received multimedia files with incident records stored in the database **26** may take place in two stages. A first stage may include authorizing a multimedia file request, and a second stage may include associating a submitted multimedia file to an incident record.

FIG. 2 illustrates a method **100** for authorizing a multimedia file request received by an answering point **12**. As an example, the method **100** is described herein in terms of the answering point **12** receiving a request from an individual **36** to submit the multimedia file **40C** associated with the assault **40**. At block **101**, the answering point **12** receives a communication (e.g., through a voice call or a text message). As described above, the call record **40A** is created for the communication, and the call record **40A** is linked to the incident record **40B**. At block **103**, a request to submit the multimedia file **40C** is received by the answering point **12**. If the communication includes a text message, the text message can include the request to submit the multimedia file **40C**.

At block **105**, a confirmation is performed that a communication device capable of receiving a text message is available. If the communication is a text message, this confirmation may not be necessary (e.g., the receipt of the text message indicates that the communication device capable of receiving a text message). Alternatively, if the communication is a voice call, the dispatch computer **22** (e.g., through the dispatch terminal **24**) may prompt the call taker **28** to ask the individual **36** whether he or she has a communication device capable of receiving a text message. If a communication device capable of receiving a text message is not available, an alternative method for receiving the multimedia file **40C** is recommended at block **107**. Alternative methods for submitting the multimedia file **40C** may include sending the multimedia file **40C** in an email with a reference number or passphrase, submitting the multimedia file **40C** using a website, or delivering the multimedia file **40C** to law enforcement on a flash drive or other suitable computer-readable medium.

Some communication devices are capable of transmitting and receiving text messages without being connected to a cellular network. For example, some tablet computers, smart phones, and other computing devices are configured to transmit and receive text messages through the use of a gateway configured to receive a text message on a cellular network and transmit the text message on a different network (e.g., a Wi-Fi network or other data communication network). The gateway is transparent to devices receiving text messages from or transmitting text messages to such devices. Therefore, these types of devices may be considered capable of receiving text messages for purposes of the systems and methods described herein.

If a communication device capable of receiving a text message is available (at block **105**), a telephone number is obtained for the communication device. In some embodiments, the dispatch computer **22** identifies the telephone number for the communication device that is communicating with the answering point **12**. The dispatch computer **22** may make this identified telephone number available to the call taker **28** through the dispatch terminal **24** and may prompt the call taker **28** to ask the individual **36** to verify the telephone number as being associated with a communication device capable of receiving a text message. If the individual **36** verifies the telephone number, the dispatch computer **22** authorizes a text message to automatically-identified telephone number as described below.

Alternatively, a text message to a different telephone number than the telephone number associated with the communication device communicating with the answering point **12** may be authorized. For example, if the telephone **32** is communicating with the answering point **12**, an alternative telephone number may be received. An alternative telephone number may also be received when the communication device communicating with the answering point **12** is capable of receiving text messages but does not contain the multimedia file **40C**.

For example, FIG. 3A and FIG. 3B illustrate a portion of a graphical user interface **108** generated on the dispatch computer **22** and displayed on the dispatch terminal **24**. As illustrated in FIG. 3A and FIG. 3B, the graphical user interface **108** includes a menu **109** including one or more menu selections selectable by the call taker **28**. In particular, the menu **109** includes an "Authorize Multimedia Prompt" menu selection **110**. If the call taker **28** selects the "Authorize Multimedia Prompt" menu selection **110**, a dialog box **111** (see FIG. 4) is displayed within the graphical user interface **108**. The dialog box **111** prompts the call taker **28** to enter a telephone number. In some embodiments, if an alternative telephone number for receiving a text message is provided, the dispatch computer **22** generates a new call record associated with the alternative telephone number and links the new call record to the incident record **40B**. Alternatively or in addition, in some embodiments, the dispatch computer **22** adds the alternative telephone number to the call record **40A**.

The dispatch computer **22** is also configured to verify that all call records generated based on the communication (i.e., the call record **40A** generated for the initial communication and any additional call records generated) are linked to an incident record at block **112** (see FIG. 2). If any call record has not yet been associated with an incident record, dispatch computer **22** may associate the call record with an incident record at block **113**. In some embodiments, the dispatch computer **22** associates a call record with an incident record in response to commands received from the call taker **28** through the dispatch terminal **24**.

The dispatch computer **22** also receives the authorization for the submission of multimedia files at block **114**. This authorization may be received through a selection mechanism displayed within a graphical user interface provided on the dispatch terminal **24**. For example, as illustrated in FIG. **3A** and FIG. **3B**, the call taker **28** may select an “Authorize Multimedia” menu selection **115** within the graphical user interface **108** to authorize submission of multimedia files. In some embodiments, if an alternative telephone number is received as described above (see FIG. **4**), receiving this telephone number may serve as the authorization for the submission of multimedia files. For example, if a telephone number is received in the dialog box **111** as illustrated in FIG. **4**, selecting the “OK” button **116** authorizes the submission of multimedia files from the device associated with the entered telephone number. Accordingly, in these situations, it may not be necessary to select the “Authorize Multimedia” menu selection **115** to authorize the submission. It should be understood that in some embodiments the individual communicating with the answering point **12** through a communication device may provide input described above as being provided by the call taker **28**.

Returning to FIG. **2**, at block **117**, after authorizing the submission of multimedia files, the dispatch computer **22** creates a text message. The text message may include plain text instructions for submitting the multimedia file **40C**. The text message also includes an identifier of the incident. In some embodiments, the identifier is embedded in metadata included with the text message (e.g., a message header) and is not included in the plain text of the text message. In some embodiments, the identifier includes a call identifier for a call record (e.g., the call record **40A** or a new call record generated based on a received alternative telephone number). Alternatively or in addition, the identifier includes an incident identifier for an incident record (e.g., the incident record **40B**). Alternatively or in addition, the identifier may include a unique identifier assigned by the dispatch computer **22** (i.e., distinct from a call identifier and an incident identifier). For example, the dispatch computer **22** may assign text messages a unique identifier (e.g., sequential numbers or random numbers) and create and store a mapping that maps the assigned unique identifier to one or more call identifiers and/or to one or more incident identifiers. Using this extra layer of mapping provides security by preventing the external communication of identifier associated with records stored in the database **26**. For example, even if the identifier can be extract from the text message, the identifier provides no information regarding the identifiers of call records or incident records stored in the database **26** that otherwise could be used to compromise the database **26**.

The dispatch computer **22** may assign an expiration term to the text message. The expiration term may be included in the text message (e.g., in the plain text instructions and/or in the metadata) and/or may be stored in the database **26** (e.g., in a call record and/or an incident record). The expiration term specifies a date range or deadline for providing a reply to the text message (e.g., three days from transmitting the text message). If a reply to the text message is received after the expiration term, the dispatch computer **22** may automatically discard the reply and any multimedia files included in the reply. The expiration term assigned to the text message may be manually specified (e.g., through the graphical user interface **108**) or set to a default term by the dispatch computer **22**.

At block **118**, after creating the text message, the dispatch computer **22** transmits the created text message to the

communication device capable of receiving text message, such as the wireless device **38**. Transmitting the text message to the wireless device **38** may include transmitting the text message to the text control center **20**, which translates the created text message into a text message capable of delivery over the cellular network **16** or other data communication network and transmits the translated text message to the wireless device **38** over the appropriate network.

Before or after transmitting the text message, the dispatch computer **22** may display a status message on the dispatch terminal **24** informing the call taker **28** that the text message has been transmitted. The status message may include the telephone number that the text message was transmitted. The dispatch computer **22** may also add information to a transaction log, a call record, an incident record, or a combination thereof regarding the text message. In some embodiments, the text control center **20** performs all or a subset of the functionality described above for creating and transmitting the text message.

In an alternative embodiment, rather than directly contacting the answering point **12** (e.g., through a voice call, a text message, an email message, a two-way radio communication, a citizens band radio communication, and the like), an individual may verbally communicate with a representation of an organization (e.g., a police officer or other public safety personnel at the scene of a crime or other incident or at another location, such as a police station or customer service or sales representative at a retail location) to make an in-person request to submit multimedia files associated with one or more incidents. In these situations, the individual may provide the representative with a telephone number for a device capable of receiving a text message. The representative may provide this information to the answering point **12** (e.g., via a communication with the answering point **12** as described above or through verbal communications with a call taker **28**). The telephone number is received by the dispatch computer **22** as described above (e.g., using the dialog box **111**). A call record is then created and is linked to an incident record (e.g., an existing incident record or a new incident record created by the call taker **28** if necessary) as described above. Similarly, the submission of the multimedia files may be authorized as described above. Alternatively, the graphical user interface **108** may be configured to allow the representative to remotely access the answering point **12** to enter the provided telephone number and authorize the submission of multimedia files as described above.

FIG. **5** illustrates a method **200** for associating a submitted multimedia file to an incident record. Again, as an example, method **200** is described herein within the context of associating the multimedia file **40C** submitted using the wireless device **38** to the incident record **40B**. The wireless device **38** receives the text message created by the dispatch computer **22**. The wireless device **38** is configured to create a reply text message including the multimedia file **40C** (e.g., as an attachment). At block **201**, the wireless device **38** transmits the reply text message to the answering point **12**. In some embodiments, the text control center **20** receives the reply text message and routes the reply text message to the dispatch computer **22**. In some embodiments, the dispatch computer **22** displays a message on the dispatch terminal **24** informing the call taker **28** that the multimedia file **40C** was received.

At block **205**, the dispatch computer **22** identifies an incident record that the submitted multimedia file **40C** should be linked to. For example, the reply to the text message can include similar metadata as the original text message transmitted by the answering point **12**, including

the identifier of the incident. Accordingly, the dispatch computer 22 can use the identifier included in the reply to the text message to identify an incident record associated with the submitted multimedia file 40C. For example, as noted above, the identifier of the incident may include a call identifier for a call record. Accordingly, the dispatch computer 22 may use the call identifier included in the reply text message to identify the call record 40A stored in the database 26. The dispatch computer 22 uses the identified call record 40A to identify the associated incident record 40B (e.g., using an incident identifier included in the call record 40A or a mapping that links the call record 40A to the incident record 40B).

Alternatively, as noted above, the identifier of the incident may include an incident identifier for an incident record. In these situations, the dispatch computer 22 may link the multimedia file 40C to the incident record 40B without identifying the call record 40A. Similarly, as also noted above, the identifier of the incident may include an identifier assigned by the dispatch computer 22 that is mapped to a call identifier and/or an incident identifier through a mapping stored by the dispatch computer 22. In these situations, the dispatch computer 22 uses the identifier in the reply text message and the mapping to identify the incident record to link the multimedia file 40C to.

In some embodiments, a submitted multimedia file is linked to multiple incident records. For example, a reply text message may include multiple identifiers associated with multiple incidents. Alternatively or in addition, the identifier of the incident included in the reply text message may be associated with a call record that is linked to multiple incident records. In these situations, the dispatch computer 22 may be configured to link the submitted multimedia file with each incident record that the associated call record is linked to.

After identifying the incident record, the dispatch computer 22 determines if the multimedia file 40C is available for download (e.g., from the text control center 20) to a local memory location (e.g., a folder structure) of the dispatch computer 22 (at block 207). If the multimedia file 40C cannot be downloaded, the dispatch computer 22 displays a status message on the dispatch terminal at block 209. In this situation, the dispatch computer 22 may re-authorize the individual 36 to submit multimedia files (e.g., by transmitting a new authorization text message).

If the multimedia file 40C is available for download, the multimedia file 40C is downloaded at block 211. In some embodiments, the multimedia file 40C is downloaded to a memory location associated with the incident that the multimedia file 40C is associated with. For example, the dispatch computer 22 may determine a file path for the multimedia file 40C based on the identifier of the incident included in the reply text message. In particular, as described above, the dispatch computer 22 uses the identifier included in the reply text message to determine an incident record to link the multimedia file to. The dispatch computer 22 may then use the unique incident identifier for the determined incident record to determine a file path for the multimedia file 40C. In particular, all multimedia files submitted for a particular incident record may be downloaded to a directory, folder, or other data storage mechanism that has a name that includes a unique incident identifier or a portion thereof. For example, if an incident record has a unique identifier of "012345," multimedia files linked to the incident record may be downloaded to a memory location designated by the file path "c:\system\downloads\012345," where "012345" identifies a directory or folder. To preserve the uniqueness of files

downloaded to this directory or folder, the dispatch computer 22 may determine if the name of a multimedia file to be downloaded exists in the director or folder and may modify the name of the multimedia file if necessary (e.g., append a suffix to the name). The memory location receiving downloaded multimedia files may be included in the database 26, a memory module within the dispatch computer 22, or another memory module within the answering point 12.

At block 213, after downloading the multimedia file 40C, the dispatch computer 22 attempts to link the multimedia file 40C to the incident record 40B (i.e., store the multimedia file 40C in the database 26 and link the multimedia file 40C to the incident record 40B as the call record 40A is linked to the incident record 40B). At block 215, if the multimedia file 40C cannot be linked to the incident record 40B (e.g., the database 26 is unavailable or the incident record 40B cannot be accessed), the multimedia file 40C is left in the memory location where the multimedia file 40C was originally downloaded. The dispatch computer 22 may also display a status message on the dispatch terminal 24 informing the call taker 28 that the multimedia file 40C has not been linked to the incident record 40B. As noted above, the memory location originally storing downloaded multimedia files may include directories or folders that uniquely identify a particular incident. Accordingly, the directory or folder name can be used to subsequently link a downloaded multimedia file to an incident record without having to go through the process of identifying the associated incident record as described above.

At block 217, if the multimedia file 40C can be linked to the incident record 40B, the multimedia file 40C is stored in the database 26 and is linked with the incident record 40B. In some embodiments, the dispatch computer 22 stores the multimedia file 40C and metadata associated with the multimedia file 40C in the database 26. In some embodiments, the metadata includes the identifier included in the reply to the text message, the associated call identifier and/or incident identifier, or both, which allows the multimedia file 40C to be linked to the incident record 40B.

In some embodiments, if the incident record 40B is not yet stored in the database 26, an object (e.g., a computer aided dispatch form) is updated with the multimedia file 40C. The object can include instructions on how to attach the multimedia file 40C when the incident record 40B is subsequently submitted to the database 26. The object can be locally stored in the dispatch computer 22, stored in the database 26, or a combination thereof.

After linking the multimedia file 40C to the incident record 40B in the database 26 (or after creating the object storing the multimedia file 40C), the dispatch computer 22 displays a status message on the dispatch terminal 24, logs the transaction (e.g., in the incident record 40B), and deletes the multimedia file 40C from the memory where the multimedia file 40C was originally downloaded.

As noted above, functionality performed by the dispatch computer 22 described above may be performed by the text control center 20 or vice versa. For example, in some embodiments, the text control center 20 may store a local mapping of call identifiers and/or incident identifiers and associated text message identifiers. Accordingly, when a reply text message is received, the text control center 20 may be configured to identify the incident record and/or the call record associated with the reply text message using the locally-stored mapping and provide this information to the dispatch computer 22. Also, in some embodiments, the text control center 20 may be configured to download multimedia files attached to reply text messages and provide a link

to the dispatch computer 22 that the dispatch computer 22 can use to download the multimedia files.

Transmitting the text message from the answering point 12 to the communication device authorizes the submission of a multimedia file. Accordingly, the text message allows the answering point 12 to receive multimedia files determined to be informative and relating only to an incident tracked by the answering point 12. In particular, allowing unauthorized multimedia file submissions may overload the answering point 12 and may cause the answering point 12 to receive and ultimately process multimedia files that are not associated with incidents tracked by the answering point 12 or that contain malicious or inappropriate content. Also, the identifier included in the text message allows the dispatch computer 22 to link a submitted multimedia file to an existing incident record. This functionality keeps submitted multimedia files linked to incidents tracked by the answering point 12 and reduces the need to manually process multimedia files, which, in some situations, may not be able to properly link a multimedia file to a particular incident.

The references to a public safety answering point within a next generation 911 system were provided as one example of an answering point. However, as noted above, the systems and methods described above are not limited to public safety answering points and may be used by various organizations who receive multimedia files from individuals. For example, in alternative embodiments, the answering point 12 may be associated with an insurance company that receives multimedia files from a communication device associated with claimant or an adjuster relating to an insurance claim. In particular, the answering point 12 may receive a communication (e.g., a voice call) from a communication device relating to a claim against an insurance policy provided by the insurance company, such as for repairs to a vehicle following a car accident or for repairs to a residence after a storm. The received communication may include a request to submit a multimedia file relating to the claim, such as an image of damage to the vehicle or residence. The answering point 12 accesses or creates an incident record associated with the claim and creates a call record for the communication as described above. Similarly, the answering point 12 authorizes the submission of multimedia files as described above, which causes a text message to be transmitted to communication device capable of receiving a text message. The communication device generates a reply to the text message that includes the multimedia file (e.g., as an attachment). The reply to the text message is transmitted by the communication device to the answering point 12, and the answering point 12 processes the received text message and submitted multimedia file as described above.

As another embodiment, the answering point 12 may be associated with a medical service provider that receives multimedia files from patients relating to a specific injury, condition, or other medical incident. Similarly, the answering point 12 may be associated with a customer service center that receives multimedia files from customers relating to services or products. Furthermore, the answering point 12 may be associated with a help desk center that receives multimedia files from individuals experiencing technical difficulties relating to a particular technology. In addition, the answering point 12 may be associated with an event organization that receives multimedia files from individuals participating in an event provided by the organization, such as a conference, a concert, a play, a charity event, a political event, a corporate event, and the like.

In the foregoing specification, specific embodiments have been described. However, one of ordinary skill in the art

appreciates that various modifications and changes can be made without departing from the scope of the invention as set forth in the claims below. Accordingly, the specification and figures are to be regarded in an illustrative rather than a restrictive sense, and all such modifications are intended to be included within the scope of present teachings.

The benefits, advantages, solutions to problems, and any element(s) that may cause any benefit, advantage, or solution to occur or become more pronounced are not to be construed as a critical, required, or essential features or elements of any or all the claims. The invention is defined solely by the appended claims including any amendments made during the pendency of this application and all equivalents of those claims as issued.

Moreover in this document, relational terms such as first and second, top and bottom, and the like may be used solely to distinguish one entity or action from another entity or action without necessarily requiring or implying any actual such relationship or order between such entities or actions. The terms “comprises,” “comprising,” “has”, “having,” “includes”, “including,” “contains”, “containing” or any other variation thereof, are intended to cover a non-exclusive inclusion, such that a process, method, article, or apparatus that comprises, has, includes, contains a list of elements does not include only those elements but may include other elements not expressly listed or inherent to such process, method, article, or apparatus. An element preceded by “comprises . . . a”, “has . . . a”, “includes . . . a”, “contains . . . a” does not, without more constraints, preclude the existence of additional identical elements in the process, method, article, or apparatus that comprises, has, includes, contains the element. The terms “a” and “an” are defined as one or more unless explicitly stated otherwise herein. The terms “substantially”, “essentially”, “approximately”, “about” or any other version thereof, are defined as being close to as understood by one of ordinary skill in the art, and in one non-limiting embodiment the term is defined to be within 10%, in another embodiment within 5%, in another embodiment within 1% and in another embodiment within 0.5%. The term “coupled” as used herein is defined as connected, although not necessarily directly and not necessarily mechanically. A device or structure that is “configured” in a certain way is configured in at least that way, but may also be configured in ways that are not listed.

It will be appreciated that some embodiments may be comprised of one or more generic or specialized processors (or “processing devices”) such as microprocessors, digital signal processors, customized processors and field programmable gate arrays (FPGAs) and unique stored program instructions (including both software and firmware) that control the one or more processors to implement, in conjunction with certain non-processor circuits, some, most, or all of the functions of the method and/or apparatus described herein. Alternatively, some or all functions could be implemented by a state machine that has no stored program instructions, or in one or more application specific integrated circuits (ASICs), in which each function or some combinations of certain of the functions are implemented as custom logic. Of course, a combination of the two approaches could be used.

Moreover, an embodiment can be implemented as a computer-readable storage medium having computer readable code stored thereon for programming a computer (e.g., comprising a processor) to perform a method as described and claimed herein. Examples of such computer-readable storage mediums include, but are not limited to, a hard disk, a CD-ROM, an optical storage device, a magnetic storage

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device, a ROM (Read Only Memory), a PROM (Program-
mable Read Only Memory), an EPROM (Erasable Program-
mable Read Only Memory), an EEPROM (Electrically
Erasable Programmable Read Only Memory) and a Flash
memory. Further, it is expected that one of ordinary skill,
notwithstanding possibly significant effort and many design
choices motivated by, for example, available time, current
technology, and economic considerations, when guided by
the concepts and principles disclosed herein will be readily
capable of generating such software instructions and pro-
grams and ICs with minimal experimentation.

The Abstract of the Disclosure is provided to allow the
reader to quickly ascertain the nature of the technical dis-
closure. It is submitted with the understanding that it will not
be used to interpret or limit the scope or meaning of the
claims. In addition, in the foregoing Detailed Description, it
can be seen that various features are grouped together in
various embodiments for the purpose of streamlining the
disclosure. This method of disclosure is not to be interpreted
as reflecting an intention that the claimed embodiments
require more features than are expressly recited in each
claim. Rather, as the following claims reflect, inventive
subject matter lies in less than all features of a single
disclosed embodiment. Thus the following claims are
hereby incorporated into the Detailed Description, with each
claim standing on its own as a separately claimed subject
matter.

We claim:

1. A method for operating a public safety answering point
to process multimedia files associated with an incident, the
method comprising:

receiving, at the public safety answering point, a first text
message from a communication device, the first text
message including a request to submit a multimedia file
associated with the incident;

in response to receiving the first text message including
the request, transmitting a second text message includ-
ing an identifier *uniquely* linked to an *existing elec-
tronically stored* incident record associated with the
incident to the communication device;

receiving, at the public safety answering point, a reply to
the second text message, the reply including the mul-
timedia file and the identifier; and

storing, at the public safety answering point, the multi-
media file including using the identifier to link the
multimedia file to the *existing electronically stored*
incident record.

2. The method of claim 1, further comprising:

creating, at the public safety answering point, a call record
including a unique call identifier based on the request,
and

linking, at the public safety answering point, the call
record to the *existing electronically stored* incident
record, wherein the *incident* identifier included in the
second text message includes the unique call identifier.

3. The method of claim 2, wherein storing, at the public
safety answering point, the multimedia file includes access-
ing the call record using the unique call identifier, identify-
ing the *existing electronically stored* incident record for the
incident based on the call record, and linking the multimedia
file to the *existing electronically stored* incident record.

4. The method of claim 2, wherein linking the call record
to the *existing electronically stored* incident record includes
linking the call record to a plurality of incident records,
wherein the plurality of incident records includes the *exist-
ing electronically stored* incident record for the incident.

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5. The method of claim 4, wherein storing, at the public
safety answering point, the multimedia file includes access-
ing the call record using the unique call identifier, identify-
ing the plurality of incident records based on the call record,
and linking the multimedia file to each of the plurality of
incident records.

6. The method of claim 1, further comprising displaying,
at the public safety answering point, a graphical user inter-
face and receiving, at the public safety answering point, a
telephone number associated with the communication
device through the graphical user interface.

7. The method of claim 6, further comprising:

creating, at the public safety answering point, a first call
record including a first unique call identifier based on
the request,

creating, at the public safety answering point, a second
call record including a second unique call identifier
based on the communication device associated with the
telephone number, and

linking, at the public safety answering point, the second
call record to the *existing electronically stored* incident
record, wherein the identifier included in the second
text message includes the second unique call identifier.

8. The method of claim 1, further comprising:

assigning, at the public safety answering point, a unique
identifier to the request, and

storing, at the public safety answering point, a mapping
that maps the unique identifier to a unique incident
identifier of the *existing electronically stored* incident
record, wherein the identifier included in the second
text message includes the unique identifier.

9. The method of claim 8, wherein storing, at the public
safety answering point, the multimedia file includes access-
ing the mapping, identifying the *existing electronically
stored* incident record for the incident using the mapping and
the unique identifier, and linking the multimedia file to the
existing electronically stored incident record.

10. The method of claim 1, further comprising assigning,
at the public safety answering point, an expiration term to
the second text message and discarding, at the public safety
answering point, the reply to the second text message when
the reply to the second text message is received after the
expiration term.

11. The method of claim 1, wherein using the identifier to
link the multimedia file to the *existing electronically stored*
incident record for the incident includes accessing the iden-
tifier in metadata included in the second text message.

12. The method of claim 1, where transmitting the second
text message includes transmitting the second text message
to a text control center.

13. A system for processing multimedia files associated
with an incident, the system comprising:

a database storing an *existing electronically stored* inci-
dent record of an incident; and

a dispatch computer configured to

receive, at a public safety answering point, a first text
message from a communication device, the first text
message including a request to submit a multimedia
file associated with the incident,

in response to receiving the first text message including
the request, transmit a second text message including
an identifier *uniquely* linked to the *existing electroni-
cally stored* incident record to the communication
device,

receive a reply to the second text message, the reply
including the multimedia file and the identifier, and

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store the multimedia file to the database including using the identifier to link the multimedia file to the existing electronically stored incident record.

14. The system of claim 13, wherein the identifier included in the second text message includes a unique identifier of the existing electronically stored incident record.

15. The system of claim 13, wherein the dispatch computer is further configured to create a call record including a unique call identifier based on the request and link the call record to the existing electronically stored incident record, wherein the identifier included in the second text message includes the unique call identifier.

16. The system of claim 13, wherein the identifier is included in metadata of the second text message.

17. The system of claim 13, wherein the dispatch computer is further configured to display a graphical user interface on a dispatch terminal and receive a telephone number associated with the communication device through the graphical user interface.

18. The system of claim 17, wherein the dispatch computer is further configured to create a first call record including a first unique call identifier based on the request, store the first call record to the database, link the first call record to the existing electronically stored incident record, create a second call record including a second unique call identifier based on the telephone number, store the second call record in the database, and link the second call record to the existing electronically stored incident record, wherein the identifier included in the second text message includes the second unique call identifier.

19. The system of claim 13, wherein the dispatch computer is further configured to assign an expiration term to the second text message and discard the reply to the second text message when the reply to the second text message is received after the expiration term.

20. A public safety answering point, comprising:
a dispatch terminal; an input device; and a dispatch computer electrically connected to the dispatch terminal and the input device,

the dispatch computer configured to generate a graphical user interface for displaying on the dispatch terminal, the graphical user interface including:

a first graphical user interface component identifying a telephone number of a communication device from which a first text message including a request to submit a multimedia file associated with an existing electronically stored incident record is received at the dispatch computer; and

a second graphical user interface component including a plurality of menu selections selectable by a call taker via the input device, wherein the menu selections include a first menu selection providing a selection mechanism for the call taker to provide an input, via the input device at the dispatch terminal, indicating call-taker authorization for the submission of a multimedia file from the communication device associated with the telephone number and associated with the existing electronically stored incident record,

wherein the dispatch computer is configured to receive, from the dispatch terminal, the input indicating call-taker authorization for the submission of a multimedia file from the communication device and responsively create a second text message including an identifier uniquely linked to the existing electronically stored incident record associated with the incident and trans-

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mit the created second text message to the communication device for use in transmitting the multimedia file as associated with the existing electronically stored incident record using the identifier.

21. The public safety answering point of claim 20, wherein the menu selections include a second menu selection that is selectable to display a dialog box within the graphical user interface, the dialog box prompting the call taker to enter an alternative telephone number.

22. The public safety answering point of claim 21, wherein the dialog box further provides a selection mechanism for the call taker to provide an input, via the input device at the dispatch terminal, indicating call-taker authorization for the submission of a multimedia file via the alternative telephone number, wherein the dispatch computer is configured to receive, from the dispatch terminal, the input indicating call-taker authorization for the submission of a multimedia file via a second communication device associated with the alternative telephone number, and responsively create a third text message including the identifier linked to the existing electronically stored incident record associated with the incident and transmit the created third text message to the second communication device associated with the alternative telephone number.

23. The public safety answering point of claim 20, wherein the dispatch computer is configured to display a status message on the dispatch terminal informing the call taker that the second text message has been transmitted.

24. The public safety answering point of claim 20, wherein the dispatch computer is configured to receive a reply to the second text message, the reply including the multimedia file and the identifier.

25. The public safety answering point of claim 24, wherein the dispatch computer is configured to display a message on the dispatch terminal informing the call taker that the multimedia file was received.

26. The public safety answering point of claim 24, wherein the dispatch computer is configured to use the identifier included in the reply to identify the existing electronically stored incident record that the multimedia field should be linked to.

27. The public safety answering point of claim 26, wherein the dispatch computer is configured to display a status message on the dispatch terminal after linking the multimedia file to the existing electronically stored incident record.

28. The public safety answering point of claim 26, wherein the dispatch computer is configured to display a status message on the dispatch terminal when the multimedia file cannot be linked to the existing electronically stored incident record.

29. The public safety answering point of claim 24, wherein the dispatch terminal is configured to determine that the multimedia file cannot be downloaded and responsively re-authorize the submission of a multimedia file from the communication device associated with the telephone number by transmitting a fourth text message including the identifier linked to the existing electronically stored incident record associated with the incident to the communication device.

30. A method of operating a dispatch computer associated with a public safety answering point, the method comprising:

generating, by the dispatch computer, a graphical user interface for displaying on a dispatch terminal, the graphical user interface including a first graphical user interface component identifying a telephone num-

ber of a communication device from which a first text message including a request to submit a multimedia file associated with an existing electronically stored incident record is received and a second graphical user interface component including a plurality of menu selections selectable by a call taker via an input device, wherein the menu selections include a first menu selection providing a selection mechanism for the call taker to provide an input via the input device at the dispatch terminal indicating call-taker authorization for the submission of a multimedia file from the communication device associated with the telephone number; receiving, by the dispatch computer, from the dispatch terminal, the input indicating call-taker authorization for the submission of a multimedia file from the communication device and associated with the existing electronically stored incident record, and responsively creating a second text message including an identifier uniquely linked to and associated with the existing electronically stored incident record associated with the incident; and transmitting, by the dispatch computer, the created second text message to the communication device for use in transmitting the multimedia file as associated with the existing electronically stored incident record using the identifier.

31. The method of claim 30, wherein the menu selections include a second menu selection that is selectable to display a dialog box within the graphical user interface, the dialog box prompting the call taker to enter an alternative telephone number.

32. The method of claim 31, wherein the dialog box provides a selection mechanism for the call taker to provide an input via the input device at the dispatch terminal indicating call-taker authorization for the submission of a multimedia file via the alternative telephone number, the method further comprising:

receiving, by the dispatch computer, from the dispatch terminal, the input indicating call-taker authorization for the submission of a multimedia file via a second communication device associated with the alternative telephone number, and responsively creating a third

text message including the identifier linked to the existing electronically stored incident record associated with the incident; and transmitting, by the dispatch computer, the created third text message to the second communication device associated with the alternative telephone number.

33. The method of claim 30, further comprising: displaying, by the dispatch computer, a status message on the dispatch terminal informing the call taker that the second text message has been transmitted.

34. The method of claim 30, further comprising: receiving, by the dispatch computer, a reply to the second text message, the reply including the multimedia file and the identifier.

35. The method of claim 34, further comprising: displaying, by the dispatch computer, a message on the dispatch terminal informing the call taker that the multimedia file was received.

36. The method of claim 34, further comprising: using, by the dispatch computer, the identifier included in the reply to identify the existing electronically stored incident record that the multimedia field should be linked to.

37. The method of claim 36, further comprising: displaying, by the dispatch computer, a status message on the dispatch terminal after linking the multimedia file to the existing electronically stored incident record.

38. The method of claim 36, further comprising: displaying, by the dispatch computer, a status message on the dispatch terminal when the multimedia file cannot be linked to the existing electronically stored incident record.

39. The method of claim 34, further comprising: determining, by the dispatch computer, that the multimedia file cannot be downloaded and responsively re-authorizing the submission of a multimedia file from the communication device associated with the telephone number by transmitting a fourth text message including the identifier linked to the existing electronically stored incident record associated with the incident to the communication device.

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