

extracted from the first DLNA network. The following is an example of the generated multimedia message.

---

```
<MMS>
<from></from>
<to></to>
<msg> Tommy, watch this moving picture! </msg>
<contents>
  <contents_title> Moving picture of my nephew's first
  birthday </contents_title>
  <video> http://IP of DLNA DMS LAN/dol.avi </video>
</contents>
</MMS>
```

---

[0057] The mobile terminal 300, having generated a multimedia message in the step S108, transmits the multimedia message to the DMS 110 through the first DLNA network (S110).

[0058] The DMS 110, having received the multimedia message, converts the multimedia message to a web page expressed by Hyper Text Markup Language (hereinafter, HTML) (S112). The following is an example of the multimedia message converted to an HTML format.

---

```
<html>
<header>
<title>MMS</title>
</header>
<body>
<p> Tommy, watch this moving picture! </p>
<a href="http://public IP of PC/http://IP of DLNA DMS LAN IP/
dol.avi" Moving picture of my nephew's first birthday </a>
</body>
</html>
```

---

[0059] The DMS 110, having converted the multimedia message to a web page in an HTML format, transmits the web page as an Internet mail to a DMS 210, to which a receiver's mobile terminal 400 is connected via a DLNA network (for example, second DLNA network) (S114).

[0060] After receiving the mail, the receiver's DMS 210 extracts multimedia file access information included in the multimedia message from the web page included in the mail. For this, the receiver's DMS 210 identifies whether the web page included in the received mail is a multimedia message (S116). If the web page is a multimedia message, a notifying signal of reception of the multimedia message is transmitted to the receiver's mobile terminal 400. Preferably, the DMS 210 detects the telephone number of the receiver's mobile terminal 400 from the web page, and transmits the notifying signal of reception of the multimedia message through the second DLNA network.

[0061] If the receiver's mobile terminal 400 transmits a signal for viewing the multimedia message in response to the signal for notifying the multimedia message (S120), the DMS 210 converts the web page to the multimedia message in a mobile terminal display format, namely, an XML format, in response to the request for viewing the multimedia message (S122). The converted multimedia message is then transmitted to the receiver's mobile terminal 400 (S124).

[0062] If the receiver's mobile terminal 400, after receiving the converted multimedia message, requests execution of multimedia contents included in the multimedia message

(S126), the receiver's DMS 210 transmits a request for execution of the multimedia contents to the sender's DMS 110 (S128). The sender's DMS 110 identifies the location of the requested multimedia contents (i.e. through access information on the multimedia contents) (S130), and transmits the request for execution of the multimedia contents to an instrument (for example, the first AV instrument 120) storing multimedia contents (S132). The access information on the multimedia contents is preferably the address of the first DLNA network in which an instrument (for example, the first AV instrument 120) storing multimedia contents is installed.

[0063] The corresponding instrument (for example, the first AV instrument 120) detects the corresponding multimedia contents from multimedia contents stored therein, and transmits the multimedia contents to the receiver's mobile terminal 400 through the first DLNA network (S134), IP network (S136), and second DLNA network (S138). The receiver's mobile terminal 400 then plays the multimedia contents (S140).

[0064] Preferably, the first AV instrument 120, sender's mobile terminal 300, and sender's DMS 110 are connected through the first DLNA network; the sender's DMS 110 and receiver's DMS 210 are connected through the IP network; and the receiver's DMS 210 and receiver's mobile terminal 400 are connected through the second DLNA network.

[0065] FIG. 4 is a schematic block diagram of a mobile terminal 500 for providing a multimedia messaging service according to an exemplary embodiment of the present invention. Referring to FIG. 4, the mobile terminal 500 includes a memory unit 510, input unit 520, control unit 530, wireless communication interface unit 540, DLNA interface unit 550, display unit 560, speaker 570, and microphone 580.

[0066] The memory unit 510 stores information related to the operation of the mobile terminal 500 such as a program for a system drive control, data related to the program, telephone book, address book, and short message.

[0067] The input unit 520 inputs a user's signal for the operation of the mobile terminal 500 and transmits the signal to the control unit 530.

[0068] The control unit 530 controls the operation of the mobile terminal 500 according to the signal input by the input unit 520 and operating programs pre-stored in the memory unit 510. Control unit 530 may be a processor suitable for executing computer instructions to perform the exemplary processing described herein. The computer instructions may be stored in the memory 510. Alternatively, control unit 530 may comprise hardware and/or software elements that are programmed to execute the processing described herein.

[0069] When the mobile terminal 500 generates a multimedia message, the control unit 530 selects, from multimedia contents received through the DLNA interface unit 550, at least one multimedia file to be added to the multimedia message, and generates the multimedia message including access information on the multimedia files. Preferably, the control unit 530 selects multimedia files according to selection information input by the input unit 520, and generates the multimedia message including an address of a DLNA network after extracting the address of the DLNA network in which an instrument storing the selected multimedia file is installed.

[0070] When the mobile terminal 500 receives a multimedia message generated by the above method through a