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Väänänen

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(54) **VOICEMAIL SHORT MESSAGE SERVICE METHOD AND MEANS AND A SUBSCRIBER TERMINAL**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 208 days.

This patent is subject to a terminal disclaimer.

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H04M 11/10 (2006.01)

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(58) **Field of Classification Search** 455/403, 455/406, 412.2, 413, 414.4, 418; 379/88.13, 379/88.24, 93.28; 709/201, 203, 206

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,950,123 A 9/1999 Schwelb et al.
6,038,199 A * 3/2000 Pawlowski et al. 369/29.02
6,351,523 B1 * 2/2002 Detlef 379/88.14

(Continued)

FOREIGN PATENT DOCUMENTS

FI 108982 B 4/2002

(Continued)

OTHER PUBLICATIONS

Internet article <https://xesife001.nokia.com/exchange/EXT-PWF.Patent-Agency/Inbox/FW:%20Suinn>, 15 pages.

(Continued)

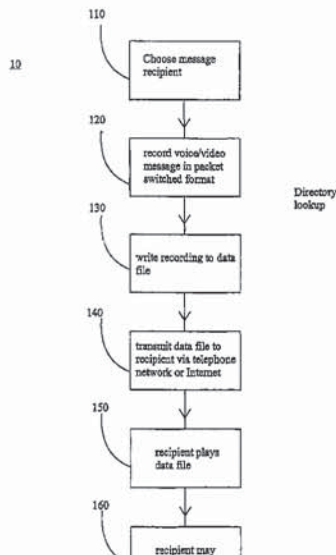
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(57) **ABSTRACT**

A voicemail short messaging method (10, 20, 30) and unit and a subscriber terminal for instantaneous packet switched voicemail between Internet compatible computers, personal digital assistants, telephones and mobile stations. In particular the subscriber terminal (500) concerns a hardware and a software setup that allows the combined use of audio and/or video devices (550) with both the normal cellular or fixed telephony network (520) and with an Internet connection (510). The subscriber terminal (500) allows the flexible use of both the Internet and telephony network with numerous advantages, one of which is the inventive voicemail short messaging method under study. The voicemail messaging method (10), comprising at least one subscriber terminal is characterized by server independence.

23 Claims, 8 Drawing Sheets



U.S. PATENT DOCUMENTS

6,385,306	B1 *	5/2002	Baxter, Jr.	379/88.13
6,400,958	B1 *	6/2002	Isomursu et al.	455/466
6,763,226	B1 *	7/2004	McZeal, Jr.	455/90.2
6,826,407	B1 *	11/2004	Helferich	455/466

FOREIGN PATENT DOCUMENTS

WO	WO 98/44709	10/1998
WO	WO 99/66746	* 12/1999
WO	WO 9966746	12/1999
WO	WO 00/02367	1/2000
WO	WO 00/30374	5/2000
WO	WO 0030374	5/2000
WO	WO 00/38340	6/2000

OTHER PUBLICATIONS

Internet article <https://anten.fol.n1/nokia/nokia.html>, Welcome to this NOKIA9000/9110 page, 5 pages.
 Index of /NOKIA/INSTALL.1, pp. 1-9.
 Internet article http://press.nokia.com/PR/199906/776767_5.html, "Nokia introduces the world's first high-speed data terminal for wireless networks", NOKIA Connecting People, pp. 1-2.
 Internet article <http://www.ducksbreath.com/ducks/warmup/tips.htm>, Mr. Facility's Guide To: How To Get Audio Over the Web, Version 1.2, Oct. 1, 1996, pp. 1-13.
 Nokia Mobile Phones, User's Manual, No. 9357168, Issue 3 EN, 1999.
 Press Releases "Nokia introduces its second generation communicator—The pocket-sized Nokia 9110 Communicator com-

bines an ultimate mobile office with a superb phone", Internet—<http://press.nokia.com>, 1998.

Harry Newton, "Newton's Telecom Dictionary", New York, Mar. 1998, pp. 526-529.

Martin H. Weik, DSc., "Communications Standard Dictionary", Second Edition, Dynamic Systems, Inc., Reston, Virginia, 1989, pp. 768-769.

Mikko Väänänen, Memo regarding "International Application No. PCT/FI 01/00701", Helsinki, Finland, May 2002.

C. Zhu, "RTP Payload Format for H.263 Video Streams", Intel Corporation, Internet—<ftp://ftp.isi.edu>, Sep. 1997.

Jarkko Sevanto, "Multimedia Messaging Service for GPRS and UMTS", New Orleans, LA, vol. 3, 1999, pp. 1422-1426.

Gruhl et al., "A demonstrator for real-time multimedia sessions over 3rd generation wireless networks", New York, New York, vol. 2, 2000, pp. 959-962.

Chawea et al., "Transmission of streaming video over an EGPRS wireless network", New York, New York, vol. 1, 2000, pp. 275-278.

RealNetworks, Inc., "Delivering REALAUDIO® or REALVIDEO® from a Web Server", RealNetworks Technical Blueprint Series, Seattle, WA, 1998.

Schulzrinne et al., "RTP: A Transport Protocol for Real-Time Applications", Audio-Video Transport Working Group; GMD Fokus; Precept Software, Inc.; Xerox Palo Alto Research Center; Lawrence Berkeley National Laboratory, Internet—<ftp://ftp.isi.edu>, Jan. 1996.

* cited by examiner

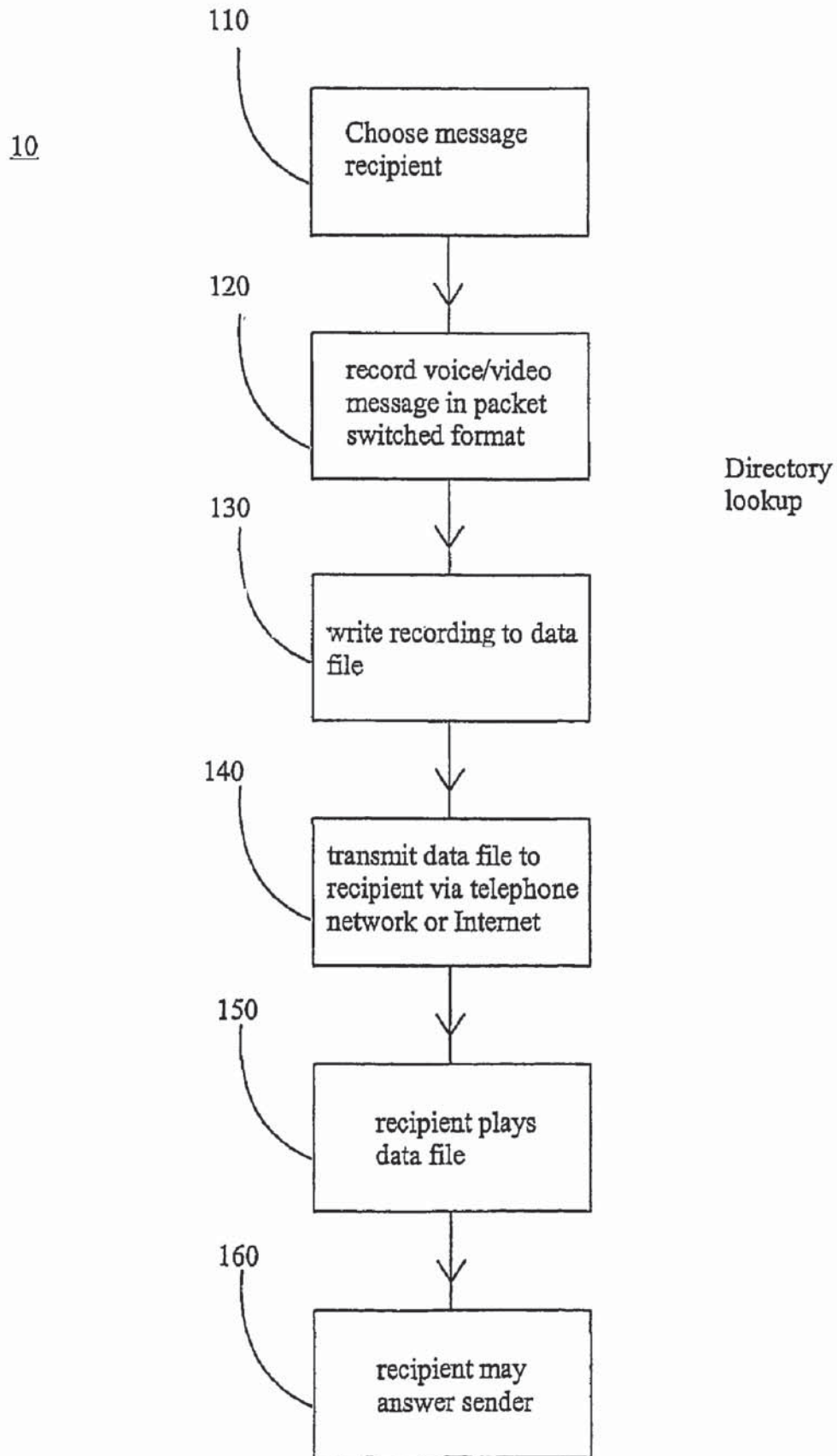


FIG 1.

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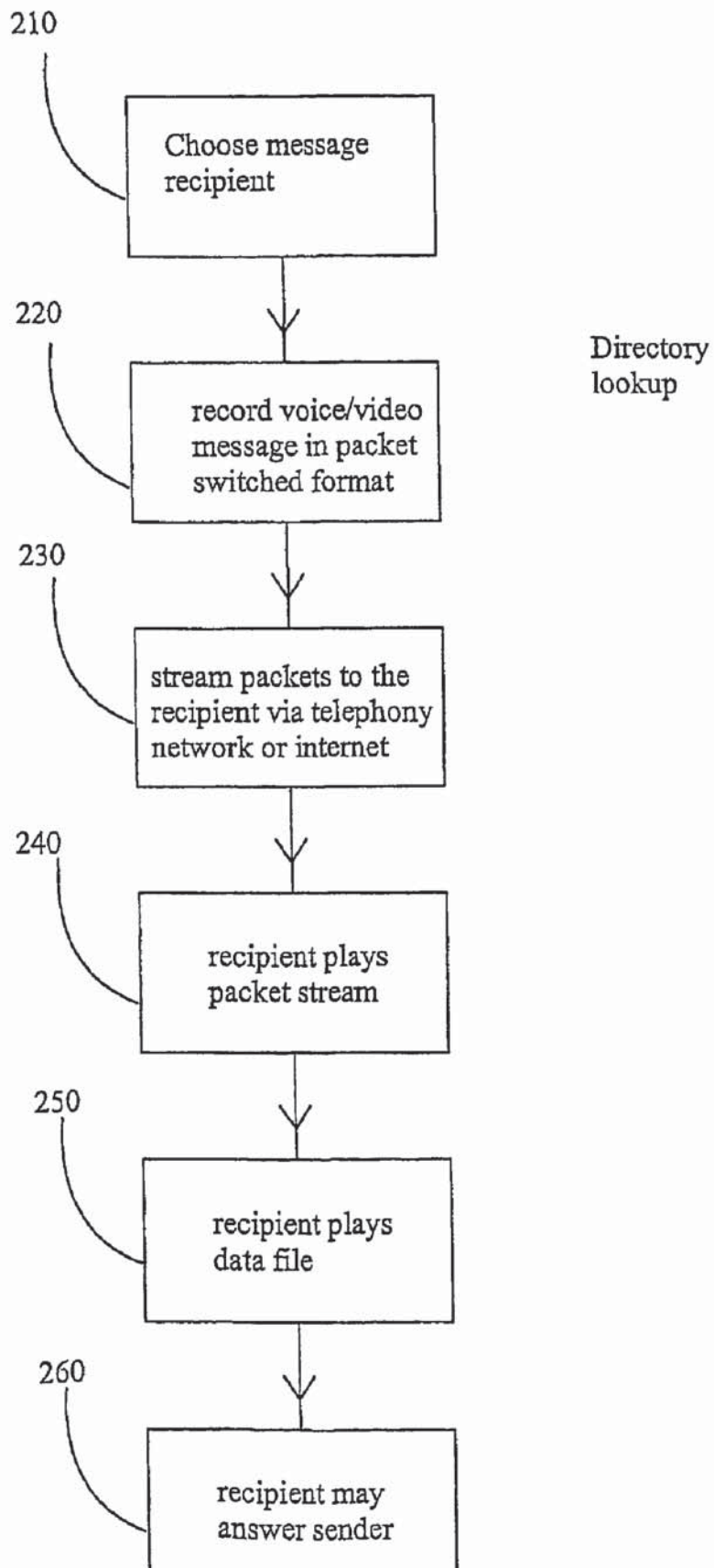


FIG 2.

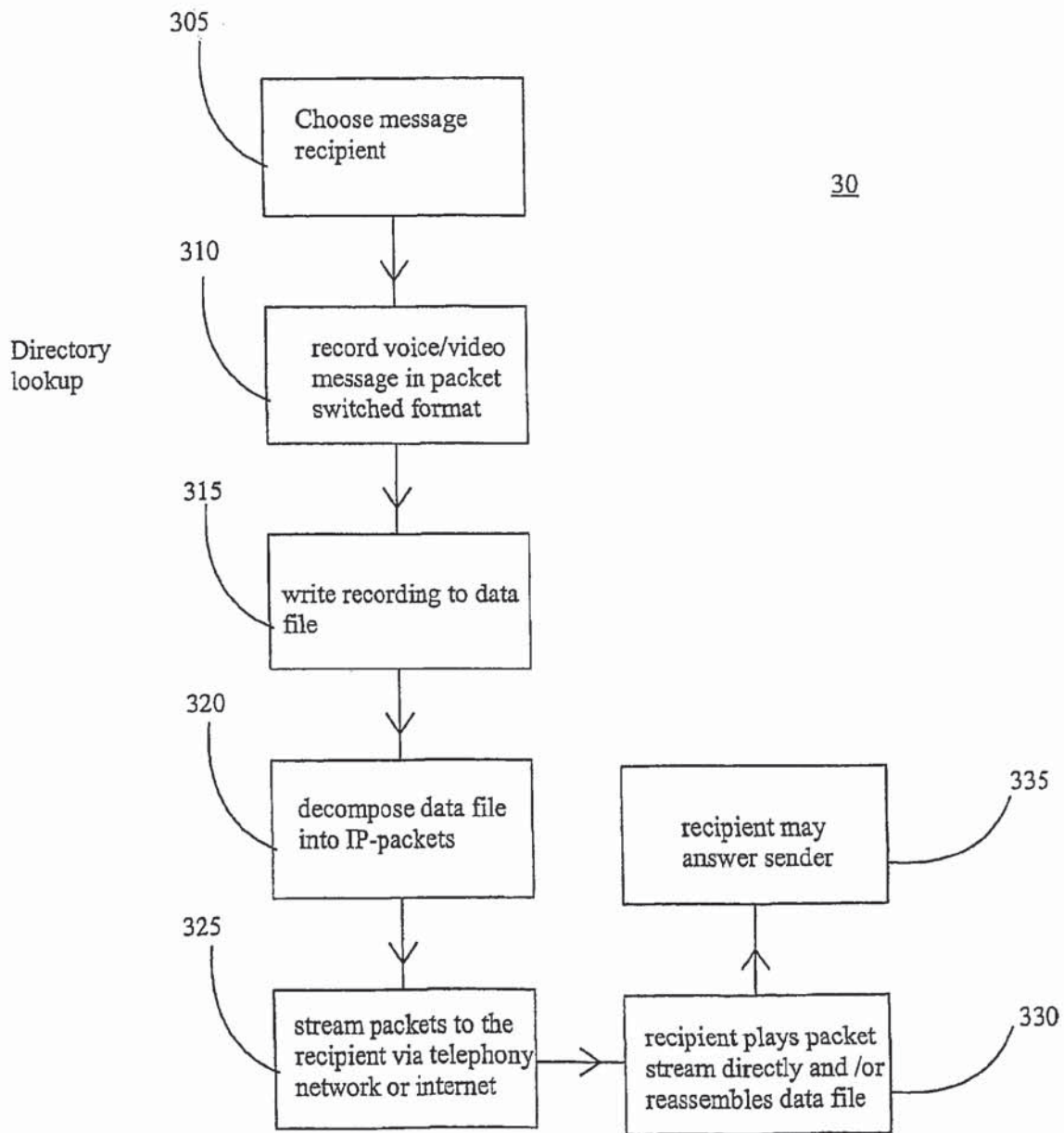


FIG 3.

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