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(54) **VOICE AND TEXT GROUP CHAT DISPLAY MANAGEMENT TECHNIQUES FOR WIRELESS MOBILE TERMINALS**

5,889,764	A	3/1999	Needham et al.	
5,889,888	A	3/1999	Marianetti, II et al.	382/187
5,905,476	A	5/1999	McLaughlin et al.	
5,987,401	A	11/1999	Trudeau	
5,987,503	A	11/1999	Murakami	
5,990,887	A	11/1999	Red Path et al.	
5,991,796	A	11/1999	Anupam et al.	
6,020,884	A *	2/2000	MacNaughton et al.	345/747
6,061,716	A	5/2000	Moncreiff	709/205
6,078,948	A	6/2000	Podgorny et al.	709/204

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(Continued)

FOREIGN PATENT DOCUMENTS

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CN 1348662 A 5/2002
(Continued)

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OTHER PUBLICATIONS

The MIRC Workshop. <http://web.archive.org/web/20020223232111/http://dooyoo-uk.tripod.com/mirc/irc.htm>. pp. 1-8. Feb. 2002.*

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(Continued)

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Primary Examiner — John MacIlwinen

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G06F 15/16 (2006.01)

(52) **U.S. Cl.** **709/206; 715/758**

(58) **Field of Classification Search** **709/206, 709/204, 220; 370/310; 345/329, 728, 758; 455/405, 435.1, 412.2; 715/753, 758; 705/27; 725/74**

See application file for complete search history.

(57) **ABSTRACT**

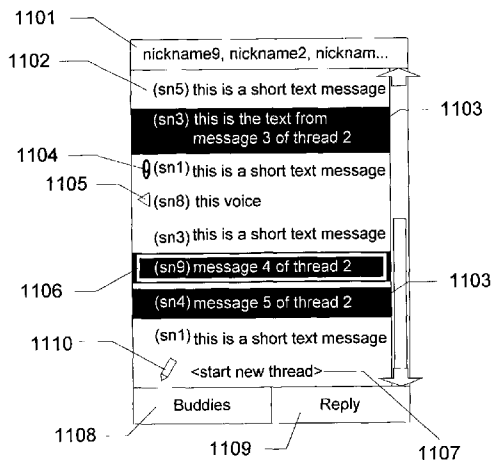
A single content region in a chat history display is used to display entries representative of a plurality of messages corresponding to all chat histories for all of chat threads currently engaged in by a given mobile terminal. Additionally, a buddy list display supports management of chat buddies, a detail view display allows otherwise truncated messages to be displayed, and a text message editor display supports the composition of text messages. Each chat user may designate public display identifiers for purposes of identification to other chat users. Additionally, each user may designate private display identifiers for each of his/her buddies, which private display identifiers may be used to replace the public display identifiers for that user's buddies when displayed on the user's mobile terminal. In this manner, the use of speech and text based group chatting and similar services in wireless communication environments is more readily enabled.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,528,671	A	6/1996	Ryu et al.	379/93
5,694,549	A	12/1997	Carlin et al.	
5,742,905	A	4/1998	Pepe et al.	
5,781,614	A	7/1998	Brunson	
5,838,318	A	11/1998	Porter et al.	

28 Claims, 9 Drawing Sheets



U.S. PATENT DOCUMENTS

6,081,830	A	6/2000	Schindler	709/204
6,157,814	A	12/2000	Hymel et al.	
6,161,134	A *	12/2000	Wang et al.	709/220
6,167,402	A *	12/2000	Yeager	707/10
6,212,548	B1 *	4/2001	DeSimone et al.	709/204
6,286,034	B1	9/2001	Sato et al.	709/204
6,301,609	B1	10/2001	Aravamudan et al.	709/207
6,360,093	B1	3/2002	Ross et al.	
6,360,252	B1 *	3/2002	Rudy et al.	709/206
6,370,563	B2	4/2002	Murakami et al.	709/205
6,393,461	B1	5/2002	Okada et al.	
6,405,035	B1	6/2002	Singh	
6,430,567	B2	8/2002	Burridge	
6,430,604	B1	8/2002	Ogle et al.	
6,433,795	B1 *	8/2002	MacNaughton et al.	345/738
6,434,604	B1	8/2002	Harada et al.	
6,446,112	B1	9/2002	Bunney et al.	
6,456,621	B1	9/2002	Wada et al.	
6,459,892	B2	10/2002	Burgan et al.	455/412
6,471,521	B1 *	10/2002	Dornbush et al.	434/322
6,480,885	B1	11/2002	Olivier	
6,484,196	B1 *	11/2002	Maurille	709/206
6,499,053	B1	12/2002	Marquette et al.	
6,501,834	B1	12/2002	Milewski et al.	
6,539,237	B1	3/2003	Sayers et al.	
6,539,421	B1	3/2003	Appelman et al.	
6,549,768	B1	4/2003	Fraccaroli	
6,594,255	B1	7/2003	Newman	
6,597,903	B1 *	7/2003	Dahm et al.	455/405
6,630,944	B1 *	10/2003	Kakuta et al.	345/758
6,668,169	B2 *	12/2003	Burgan et al.	455/435.1
6,677,976	B2	1/2004	Parker et al.	
6,681,108	B1 *	1/2004	Terry et al.	455/412.2
6,721,784	B1	4/2004	Leonard et al.	
6,760,580	B2 *	7/2004	Robinson et al.	455/412.2
6,807,431	B2 *	10/2004	Sayers et al.	455/555
6,901,255	B2 *	5/2005	Shostak	455/422.1
6,970,907	B1 *	11/2005	Ullmann et al.	709/206
6,978,293	B1 *	12/2005	Wong et al.	709/206
6,981,223	B2 *	12/2005	Becker et al.	715/753
7,003,327	B1 *	2/2006	Payne et al.	455/566
7,007,226	B1 *	2/2006	Smith et al.	715/206
7,062,533	B2 *	6/2006	Brown et al.	709/205
7,080,124	B1 *	7/2006	Shankar	709/206
7,100,116	B1 *	8/2006	Shafir et al.	715/751
2001/0031635	A1	10/2001	Bharatia	
2001/0042095	A1	11/2001	Kim et al.	709/204
2001/0044787	A1 *	11/2001	Shwartz et al.	705/78
2002/0007398	A1	1/2002	Mediola et al.	
2002/0022954	A1	2/2002	Shimohata et al.	704/3
2002/0023128	A1	2/2002	Matsumoto et al.	709/204
2002/0073154	A1	6/2002	Murakami et al.	
2002/0077082	A1	6/2002	Cruikshank	
2002/0083035	A1	6/2002	Pearl et al.	
2002/0095679	A1 *	7/2002	Bonini	725/74
2002/0112014	A1	8/2002	Bennett et al.	

2002/0133547	A1	9/2002	Lin	
2003/0003953	A1	1/2003	Houplain	
2003/0007464	A1 *	1/2003	Balani	370/310
2003/0012348	A1	1/2003	Skladman et al.	
2003/0028597	A1 *	2/2003	Salmi et al.	709/204
2003/0030670	A1 *	2/2003	Duarte et al.	345/758
2003/0055897	A1 *	3/2003	Brown et al.	709/205
2003/0126213	A1	7/2003	Betzler	
2003/0149774	A1	8/2003	McConnell et al.	
2003/0152040	A1	8/2003	Crockett et al.	
2003/0153339	A1	8/2003	Crockett et al.	
2003/0153340	A1	8/2003	Crockett et al.	
2003/0153341	A1	8/2003	Crockett et al.	
2003/0153342	A1	8/2003	Crockett et al.	
2003/0153343	A1	8/2003	Crockett et al.	
2003/0154243	A1	8/2003	Crockett et al.	
2003/0154249	A1	8/2003	Crockett et al.	
2003/0158902	A1	8/2003	Volach	
2003/0177190	A1 *	9/2003	Moody et al.	709/206
2003/0212746	A1 *	11/2003	Fitzpatrick et al.	709/206
2003/0236823	A1	12/2003	Patzer et al.	
2004/0039779	A1 *	2/2004	Amstrong et al.	709/204
2004/0078304	A1 *	4/2004	Gabbard et al.	705/27
2004/0125790	A1	7/2004	Hiller et al.	
2004/0203907	A1	10/2004	Hiller et al.	
2004/0224710	A1	11/2004	Koskelainen et al.	
2005/0027802	A1 *	2/2005	Madsen et al.	709/204
2005/0126952	A1	6/2005	Zabawskyj et al.	
2005/0207557	A1 *	9/2005	Dolan et al.	379/210.02
2006/0167944	A1 *	7/2006	Baker	707/104.1
2007/0067404	A1 *	3/2007	Brown et al.	709/206

FOREIGN PATENT DOCUMENTS

CN	1401102	A	3/2003
EP	1 154 666	A2	11/2002
JP	10154117		6/1998
JP	11203227		7/1999
JP	11249990		9/1999
JP	2002009819		1/2002
KR	2001-0103278		11/2001
WO	WO99/63773		12/1999
WO	WO 00/69140		11/2000
WO	01/63512		8/2001
WO	WO2004/008336		1/2004

OTHER PUBLICATIONS

PCT International Search Report for PCT/US03/22355 dated Sep. 26, 2003.
 Supplementary European Search Report, EPO Appl. No. EP03764784, Dated Jun. 16, 2006, 3 pages.
 PCT International Search Report and Written Opinion, Dec. 7, 2005, PCT/US04/43581, 7 pages.
 PCT International Search Report, PCT/US03/22357, May 4, 2004, 3 pages.

* cited by examiner

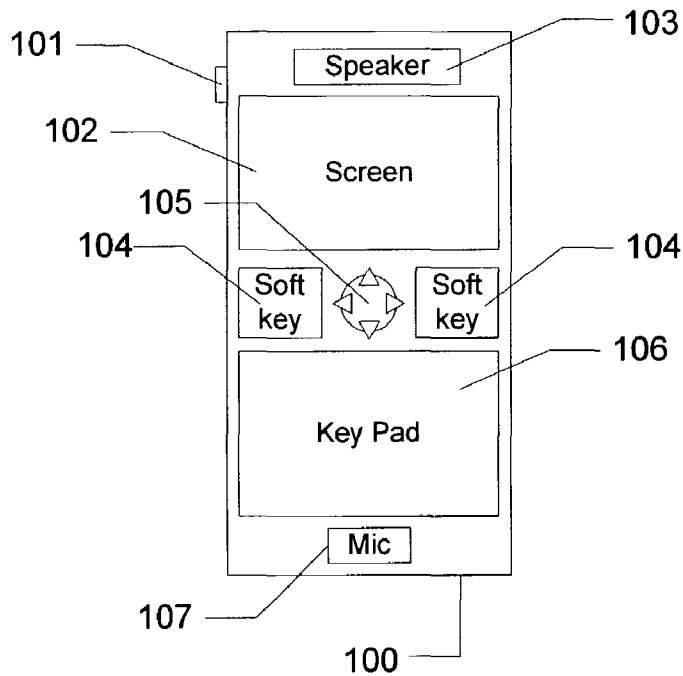


FIG. 1

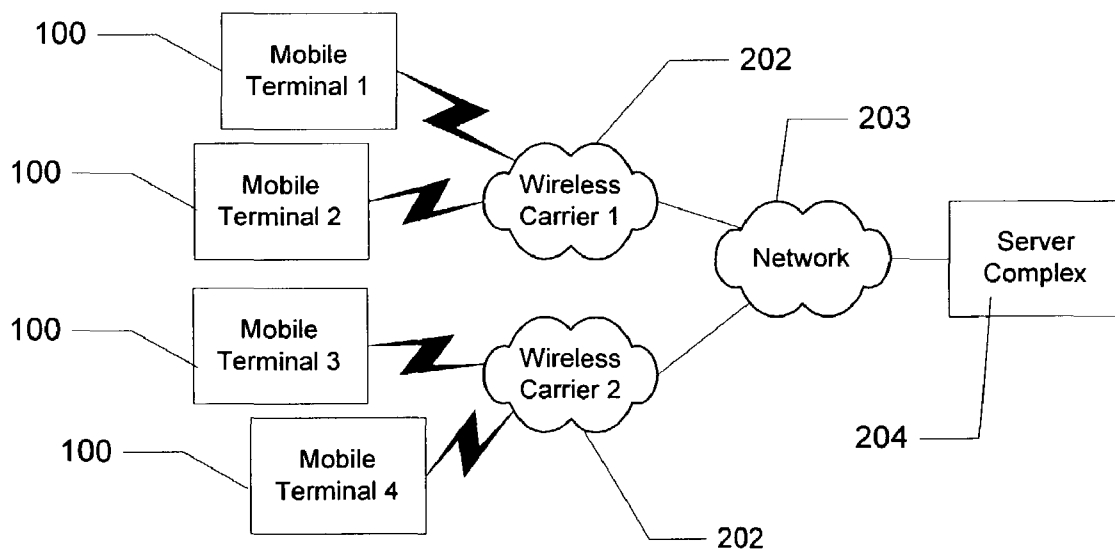


FIG. 2

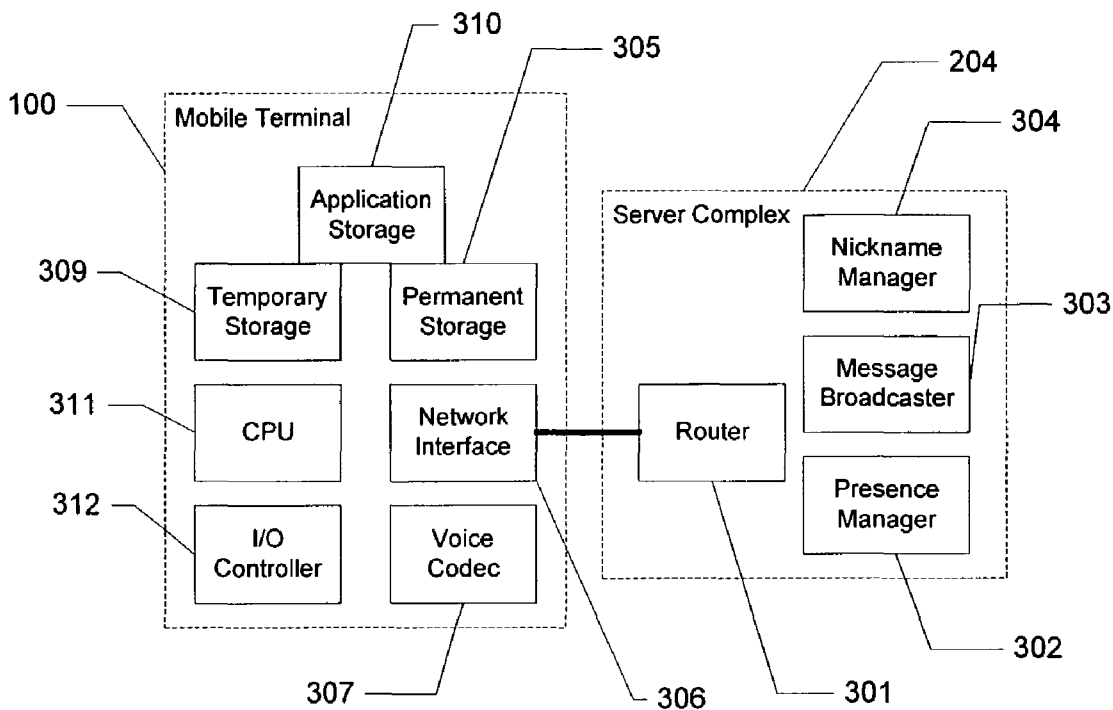


FIG. 3

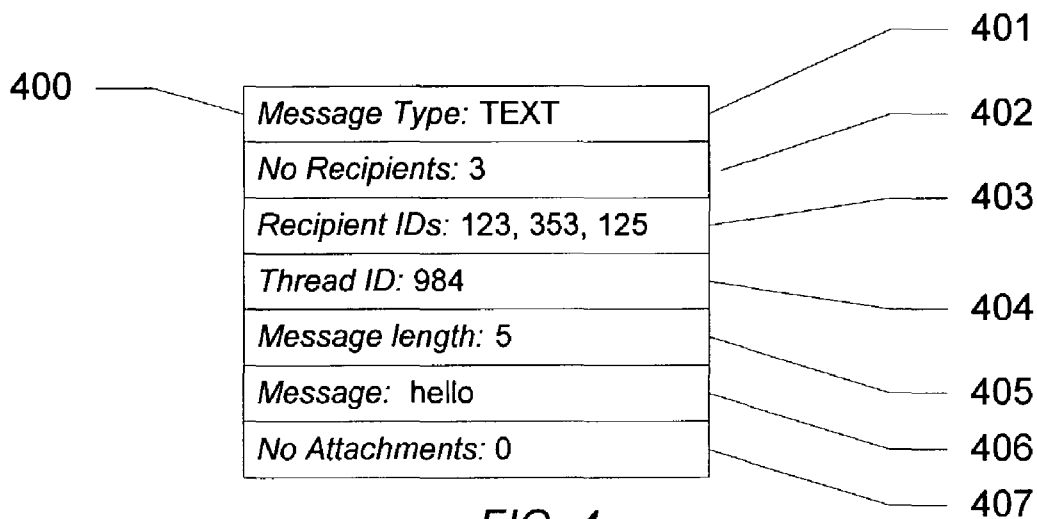
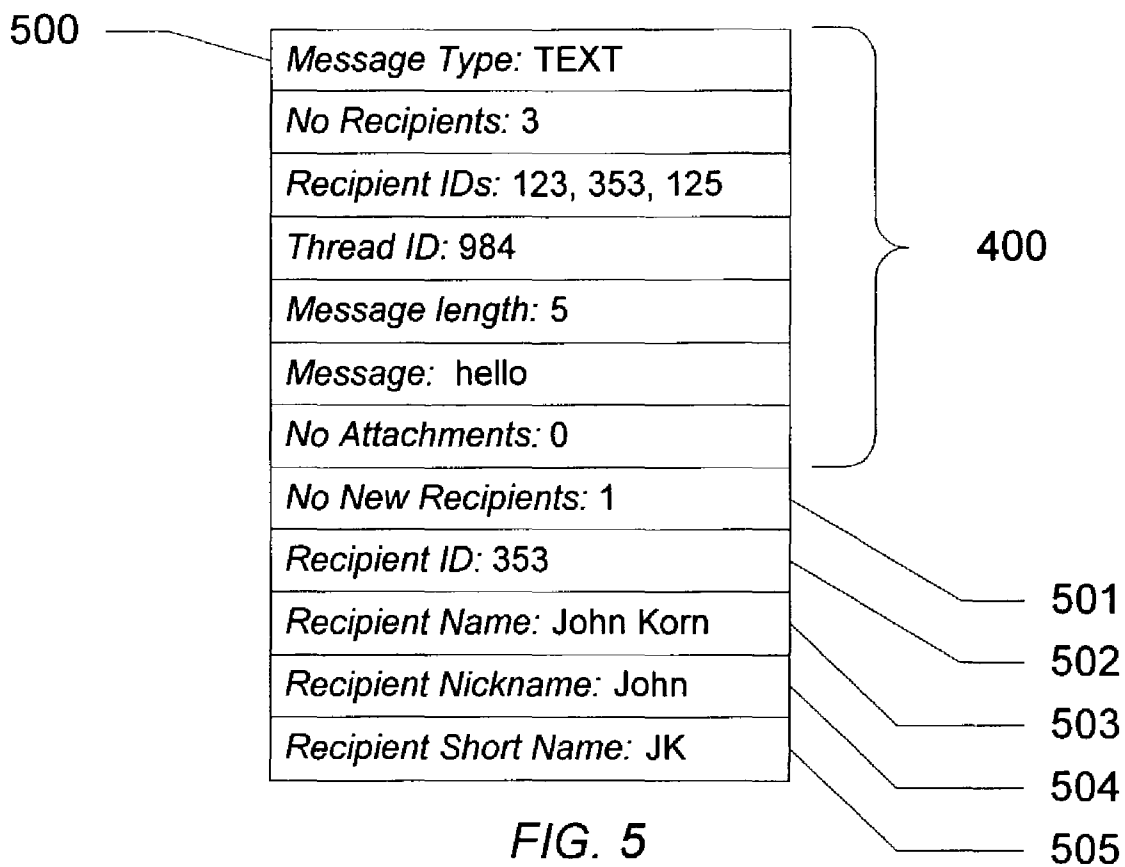


FIG. 4



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