

(12) **United States Patent**  
**Appelman**

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(54) **USER DEFINABLE ON-LINE CO-USER LISTS**

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(73) Assignee: **America Online, Inc.**, Dulles, VA (US)

(\* ) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1185 days.

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(51) **Int. Cl.**<sup>7</sup> ..... **G06F 15/00**

(52) **U.S. Cl.** ..... **345/733; 345/853**

(58) **Field of Search** ..... 345/329, 330, 345/331, 332; 395/200.34, 200.35; 379/204, 201, 202, 913

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,327,486	A	7/1994	Wolff et al.	
5,483,586	A *	1/1996	Sussman	379/201
5,533,110	A	7/1996	Pinard et al.	
5,557,659	A	9/1996	Hyde-Thomson	
5,568,540	A	10/1996	Greco	
5,583,920	A	12/1996	Wheeler, Jr.	
5,608,786	A	3/1997	Gordon	
5,610,910	A	3/1997	Focsaneanu et al.	
5,742,905	A	4/1998	Pepe et al.	
5,793,365	A *	8/1998	Tang et al.	345/329
5,960,173	A *	9/1999	Tang et al.	348/15

**FOREIGN PATENT DOCUMENTS**

WO	WO 97/14234	4/1997
WO	WO 97/46955	12/1997

**OTHER PUBLICATIONS**

Edward Baig, How to Practice Safe Surfing, Business Week, Sep. 9, 1996, p. 120.\*  
Mark Moridian, Internet Online Services: Communication, Interactive Content, v2, p. 7, Oct. 1996.\*  
Xhtalk 2.9 Specification; Klaus Hartenstein; Nov. 92.  
AOL 1996 Annual Report.  
"Dial 1-800-Internet"; Nathan Muller; BYTE Magazine; Feb. 1996.  
"Hey Baby, Call Me at My IP Address"; Peter Wayner; BYTE Magazine; Apr. 1996.  
Finding Several Users, Jul. 14, 1994, [online], [retrieved on Jan. 27, 2003]. Retrieved from the Internet: URL:http://consult.cern.ch/writeup/zephyr/subsectionstar2\_2\_3\_2.html.  
Abbe Cohen et al., Inessential Zephyr, [online], [retrieved on Jan. 28, 2003]. Retrieved from the Internet: URL:http://www.mit.edu/afs/sipb/project/doc/izephyr/html/izephyr.html.

(List continued on next page.)

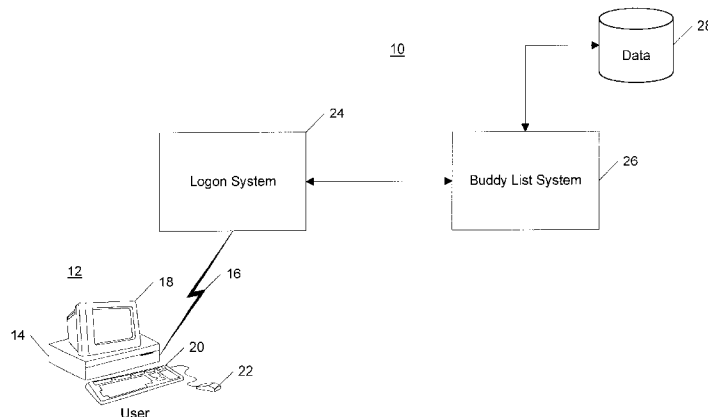
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(57) **ABSTRACT**

A real time notification system that tracks, for each user, the logon status of selected co-users of an on-line or network system and displays that information in real time to the tracking user in a unique graphical interface. The invention provides user definable on-line co-user lists, or "buddy lists", that track specific co-users in real-time automatically. A user can create many separate buddy lists of co-users, either with intersecting or disjoint lists of users, and label these buddy lists according to the user's preference. The user can update a buddy list or create new buddy lists whenever necessary. When a user logs on to a system, the user's set of buddy lists is presented to the buddy list system. The buddy list system attempts to match co-users currently logged into the system with the entries on the user's buddy list. Any matches are displayed to the user. As co-users logon and logoff, a user's buddy list is updated to reflect these changes. An indication can also be added to show that a co-user just logged on or just left the system.

**10 Claims, 7 Drawing Sheets**



OTHER PUBLICATIONS

Sharon Belville et al., Zephyr at CERN, Jul. 15, 1993, [online], [retrieved on Jan. 27, 2003]. Retrieved from the Internet: URL:<http://consult.cern.ch/writeup/zephyr/main.html>.

ZEPHYR Answers, [online], [retrieved on Jan. 27, 2003]. Retrieved from the Internet: URL:<http://web.mit.edu/answers/zephyr/>.

ZEPHYR(1) Manual Page, Jul. 1, 1988, [online], [retrieved on Jan. 27, 2003]. Retrieved from the Internet: URL:<http://www.tru64unix.compaq.com/demos/ossc-v51a/man-htm/zephyr-man.htm>.

Zephyr on Athena (AC-34) Draft, [online], [retrieved on Jan. 27, 2003]. Retrieved from the Internet: URL:<http://web.mit.edu/olh/zephyr/TOC.html>.

C. Anthony DellaFera et al., The Zephyr Notification Service, pp. 1-9.

Robert S. French et al., The Zephyr Programmer's Manual, Protocol Version ZEPH0.2, Apr. 5, 1989, pp. 1-82.

Carla J. Fermann, Distributed Consulting in a Distributed Environment, ACM SIGUCCS XVIII 1990, pp. 117-120.

Earl M. Murman et al., Perspectives on Project Athena, ACM SIGUCCS SVIII 1990, pp. 287-296.

\* cited by examiner

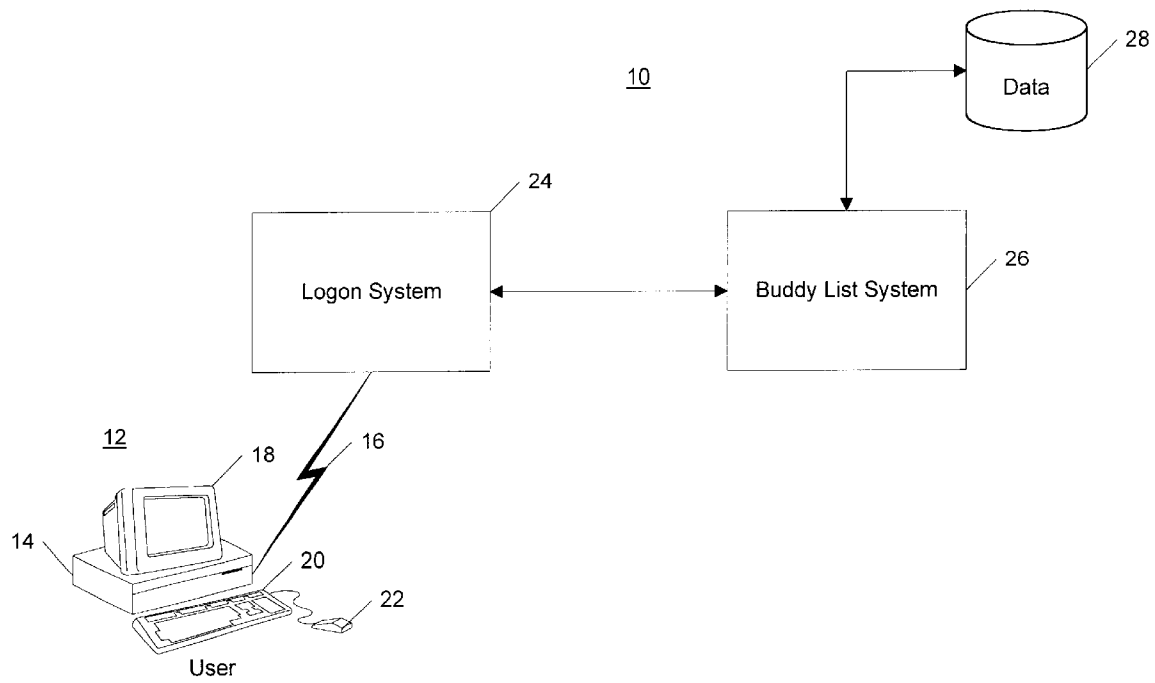


FIG. 1

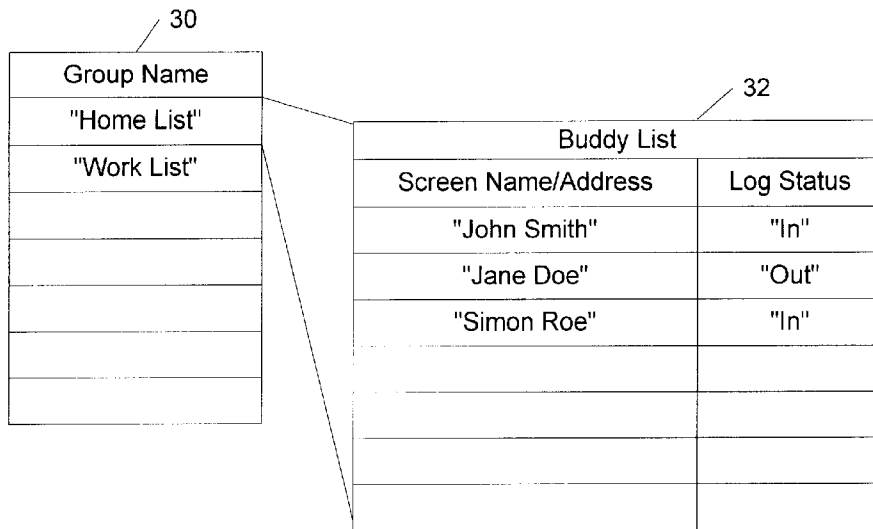


FIG. 2a

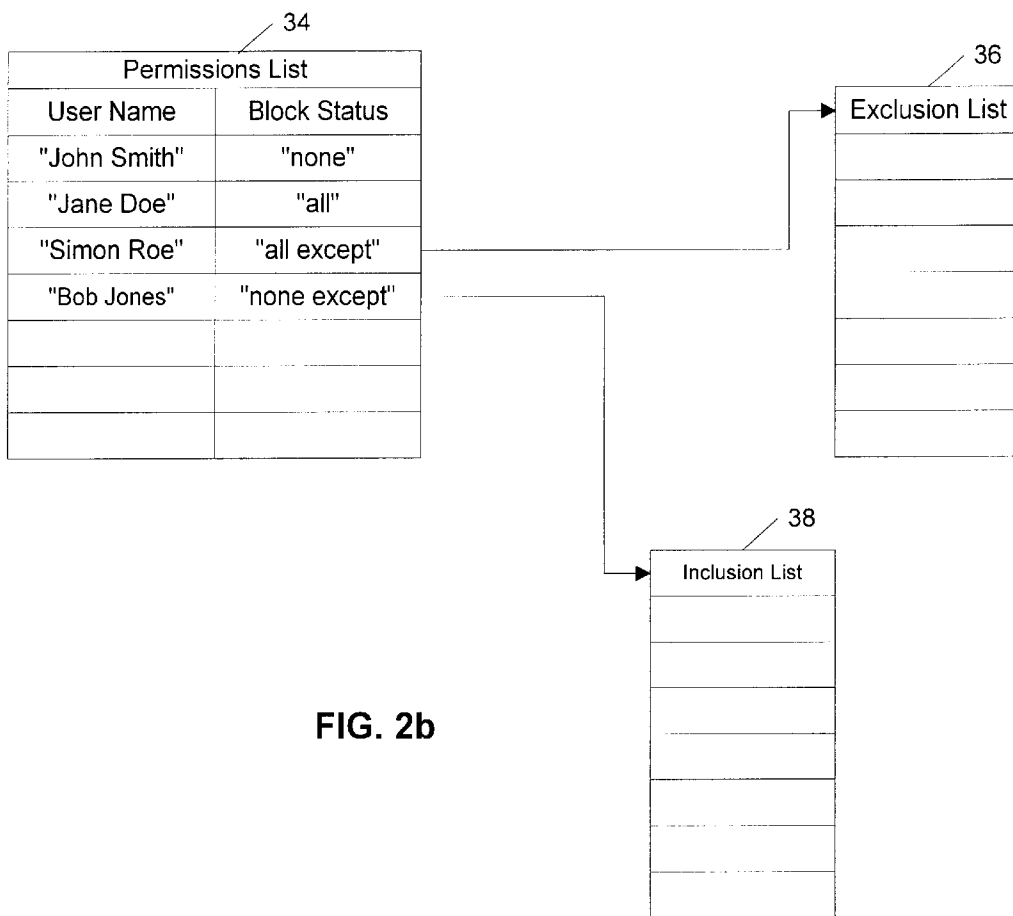


FIG. 2b

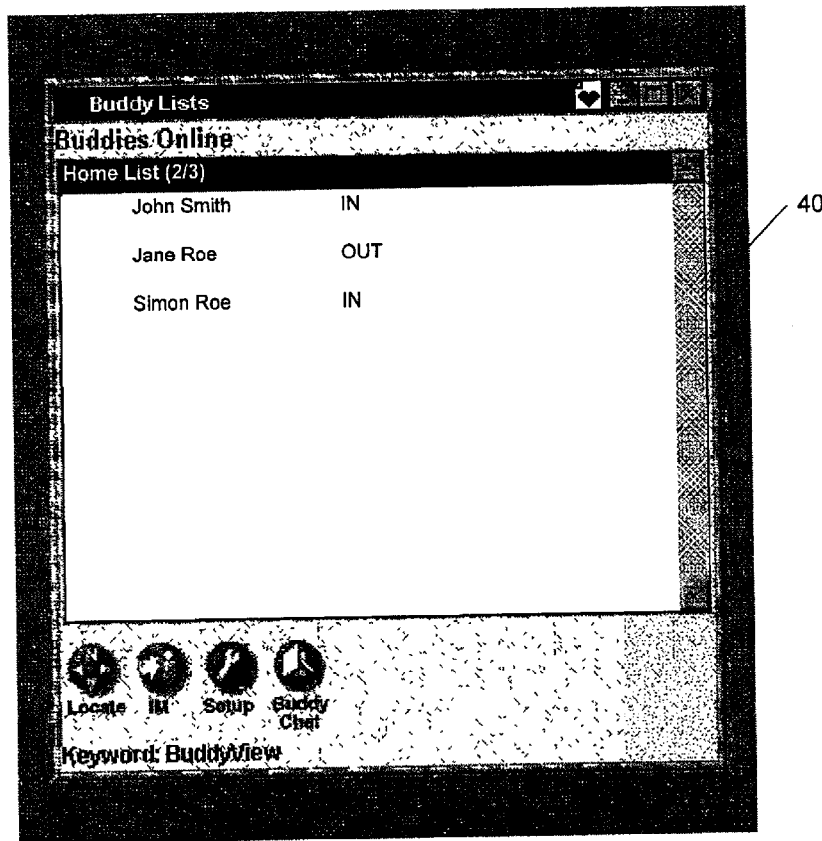


FIG. 3

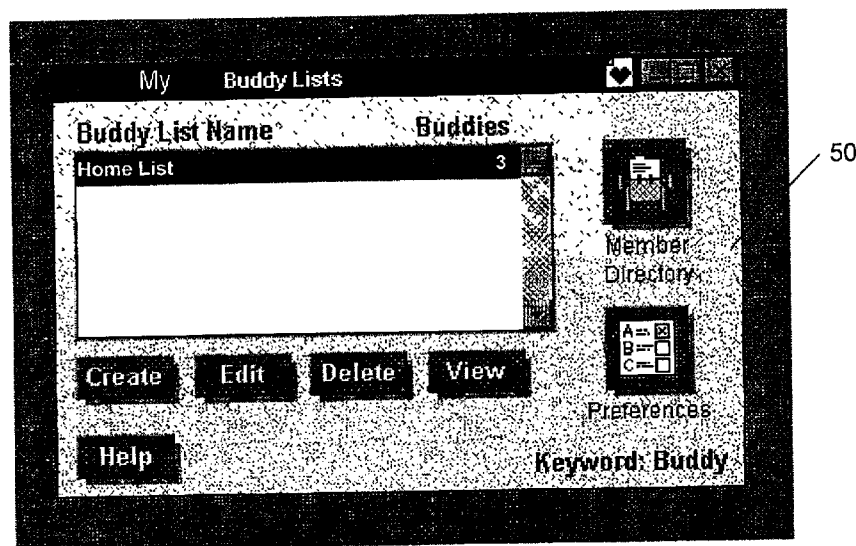


FIG. 4

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