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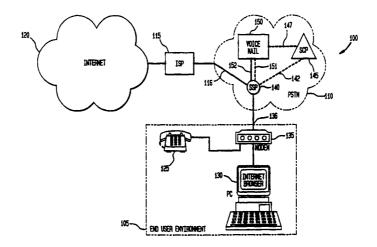
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(54) Title: SYSTEM AND METHOD FOR IMPLEMENTING CALL WAITING FUNCTIONS OVER A NETWORK



### (57) Abstract

System and method for implementing call waiting functions over a network architecture which includes a public switched telephone network (PSTN) (110) and the Internet (120). The call waiting system allows a user (105) to receive incoming call information from a third party without interrupting an active connection with a second party, such as an Internet Service Provider (ISP) (115). When the user attempts to connect to the ISP (115), a call waiting service is activated at a service control point (145) connected to the PSTN (110) and the user is notified about an incoming call attempts made after the user establishes a successful connection with the second party. Meanwhile, the third party caller has the option of leaving a voice mail (150) message for the user (105). If the user (105) is actively connected to the Internet (120), a call waiting Internet server can be used to provide the incoming call information to the user's computer terminal (105). The call waiting system further allows the user (105) to answer incoming calls in real-time when connected to the Internet (120) and return unsuccessful incoming call attempts at a later time. Thus, Internet users can enjoy an uninterrupted Internet session without missing incoming calls. The call waiting system is configurable for non-Internet applications for allowing receipt of incoming call information without interruption an active telephone connection.

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# INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  IPC(6) :H04L 12/28; H04M 3/42; 11/00; 1/64									
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According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)									
U.S. : 370/352, 353, 354, 355, 356, 389, 392, 485; 379/89, 90.01, 93.01, 32.07, 93.09, 93.05, 93.35									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  APS (PSTN, Internet, call information, ISP, call waiting, voaice mail)									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.						
X, E	US 5,805,587 A (NORRIS et al) 08 Sep 47; col. 2, line 7 to col. 3, line 38; col	1-18							
A, E	US 5,818,836 A (DUVAL) 06 Octobe	1-18							
A, P	US 5,751,706 A (LAND et al) 12 Mag	1-18							
A	US 5,608,786 A (GORDON) 04 Marc	1-18							
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