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# United States Patent [19]

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Liu

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[54] **SYSTEM AND METHOD FOR ON-LINE MULTIMEDIA ACCESS**

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[73] Assignee: **Sun Microsystems, Inc.**, Mountain View, Calif.

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[51] **Int. Cl.<sup>6</sup>** ..... **G06T 1/00**

[52] **U.S. Cl.** ..... **345/302; 380/25; 434/307 A**

[58] **Field of Search** ..... 707/501, 513, 707/529, 542; 345/302, 329, 335, 326; 434/307 R, 307 A; 463/30-35; 395/200.47, 200.48, 200.49, 200.33, 187.01, 186; 380/23, 25

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*Attorney, Agent, or Firm*—Conley, Rose & Tayon, PC; B. Noel Kivlin

## [57] ABSTRACT

A method and system for providing access to multimedia content on-line which is updated virtually simultaneously with the vendor's update process. By a user accessing a page on the World Wide Web, for example, data (encrypted and unencrypted) and instructions are automatically downloaded to a user's computer system for quick access. Depending upon the user's computer system (LAN or a stand-alone personal computer), "applets" containing data and instructions are stored for immediate access. In a Karaoke application of this invention, where the user desires to access songs which are most popular at a given time, the user accesses a page where a song list and other information is displayed on a display apparatus. When the user clicks on a particular song of the song list, the applet executes an authentication request. If the user is authenticated, the authentication is downloaded as part of the applet containing the desired multimedia content (or separately depending upon the circumstances). According to this invention, an applet includes multimedia elements which further include timing codes and a synchronization function which provides for the synchronization of the delivery of the multimedia elements.

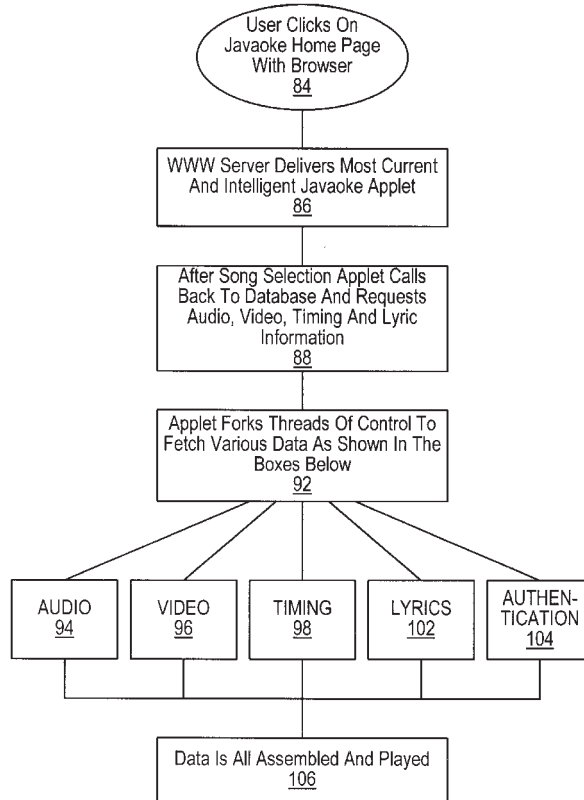
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**45 Claims, 10 Drawing Sheets**

Javaoke Flow Diagram



Javaoke Network Diagram

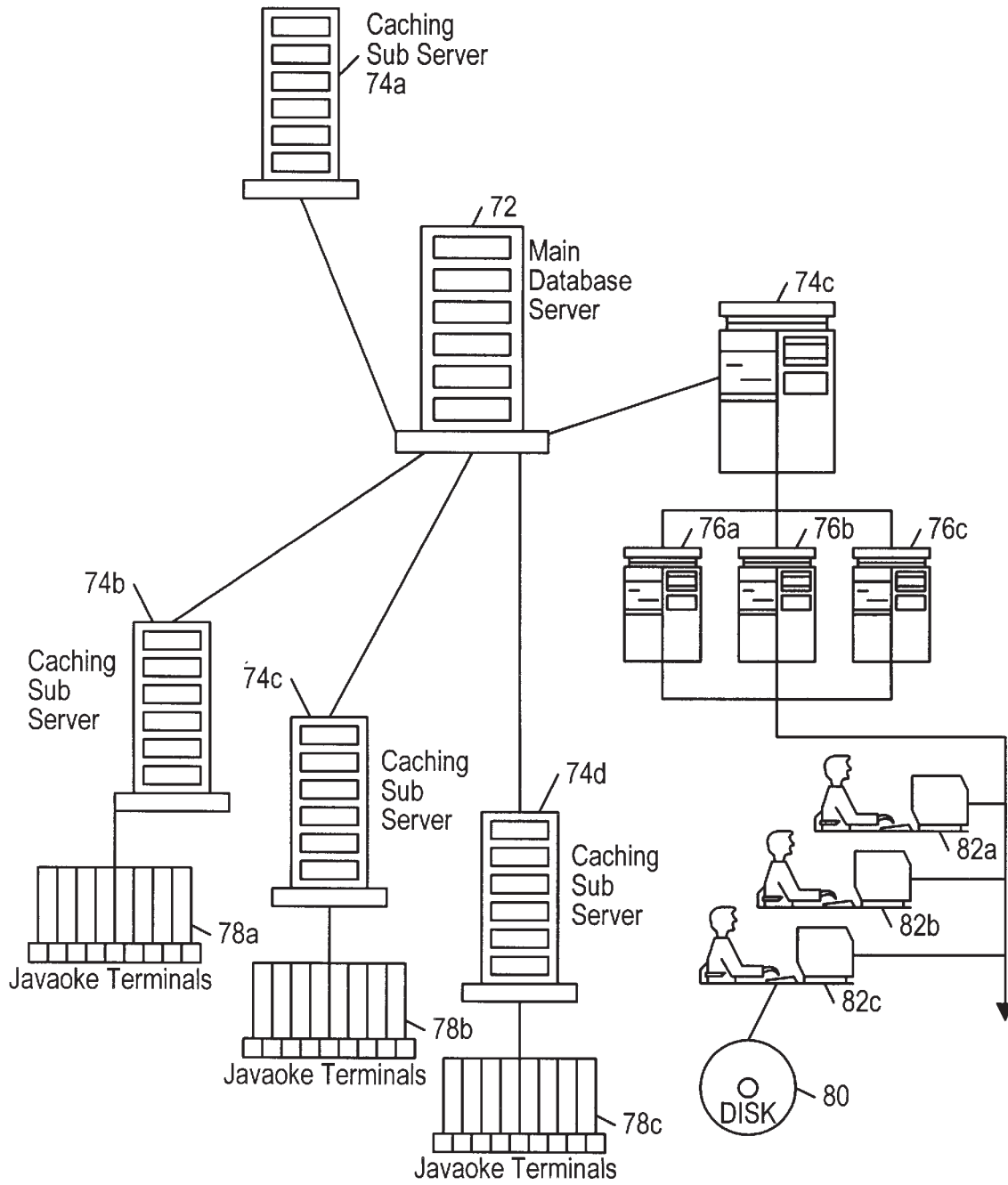


FIG. 1

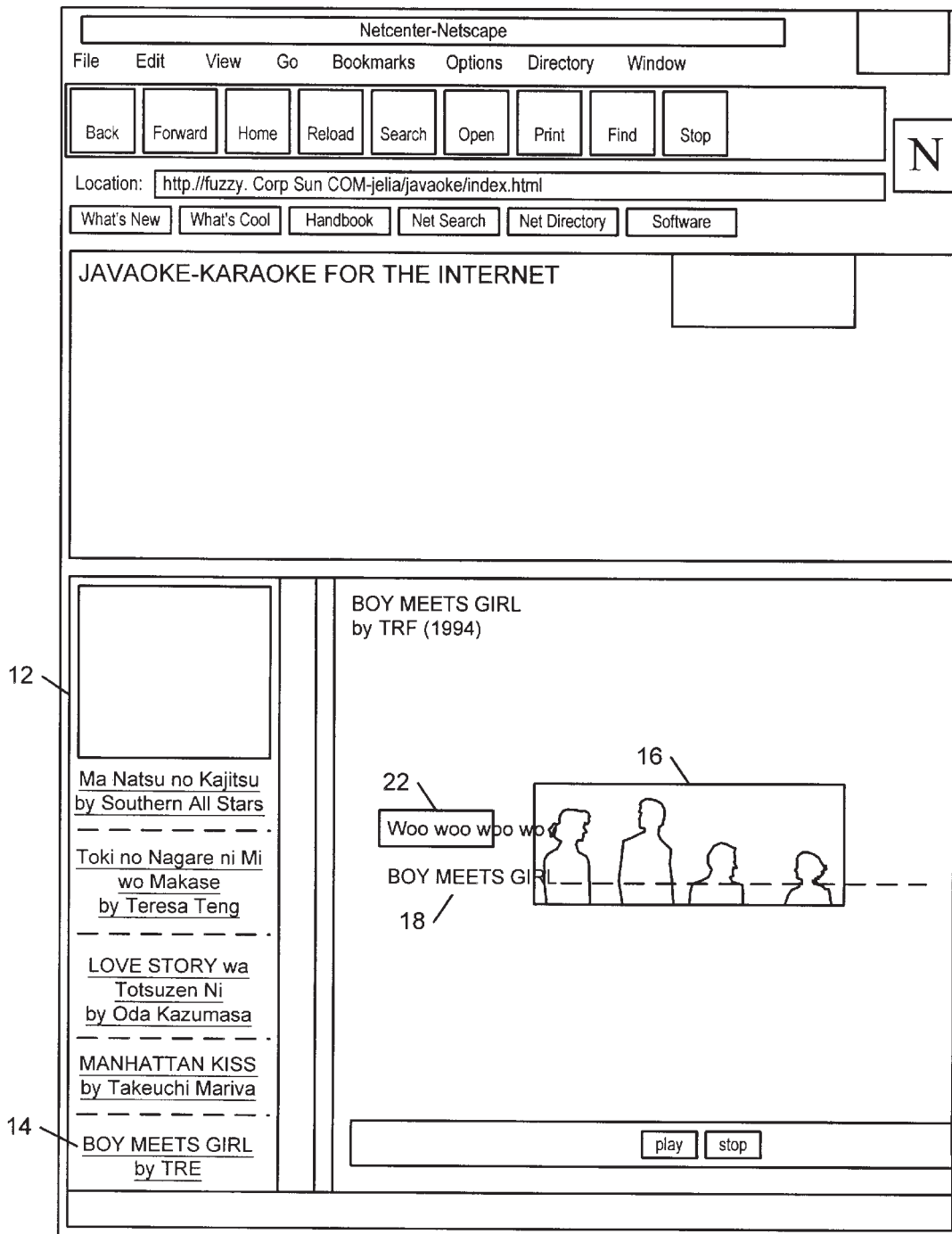


FIG. 2

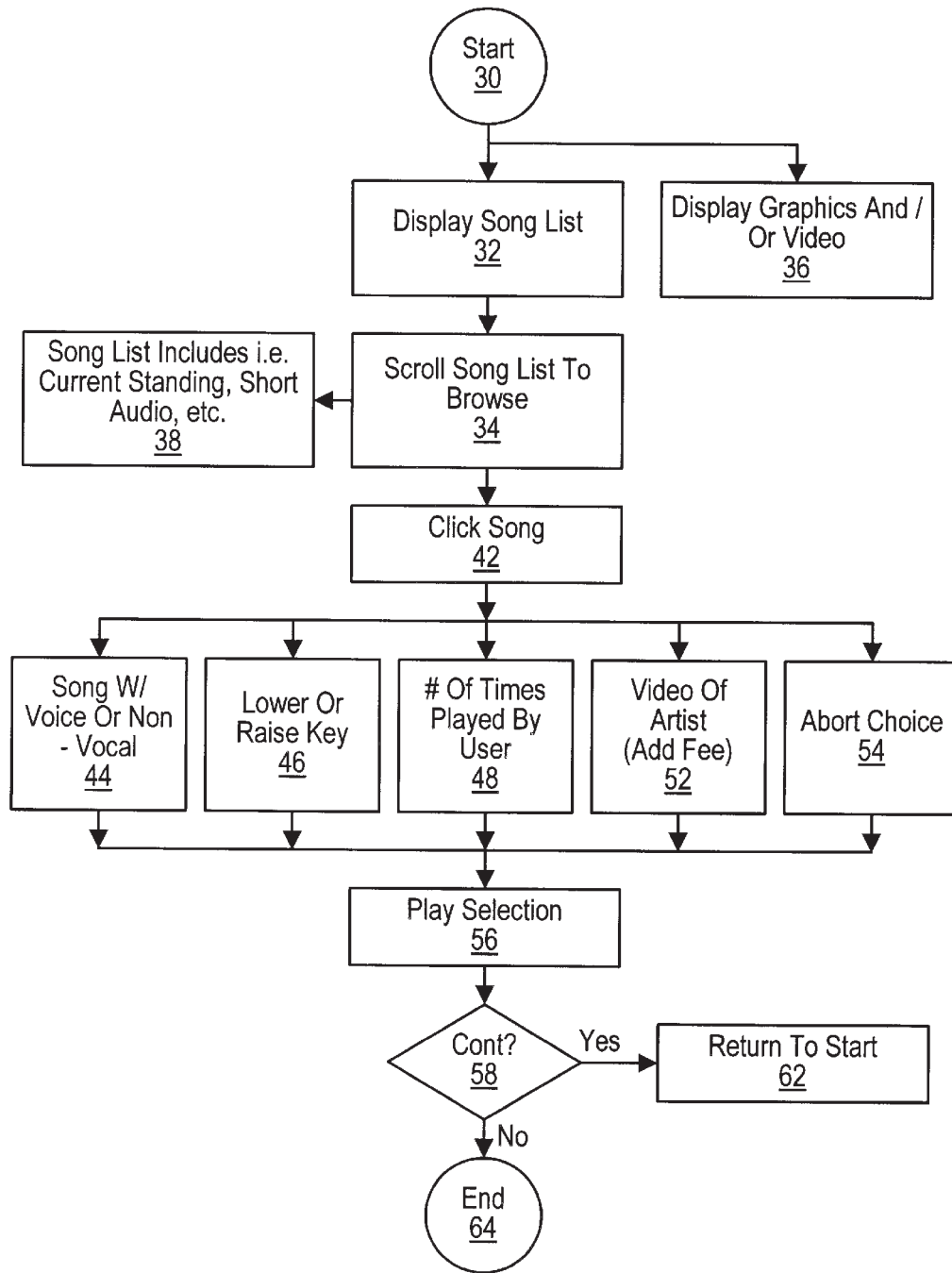


FIG. 3

Javaoke Flow Diagram

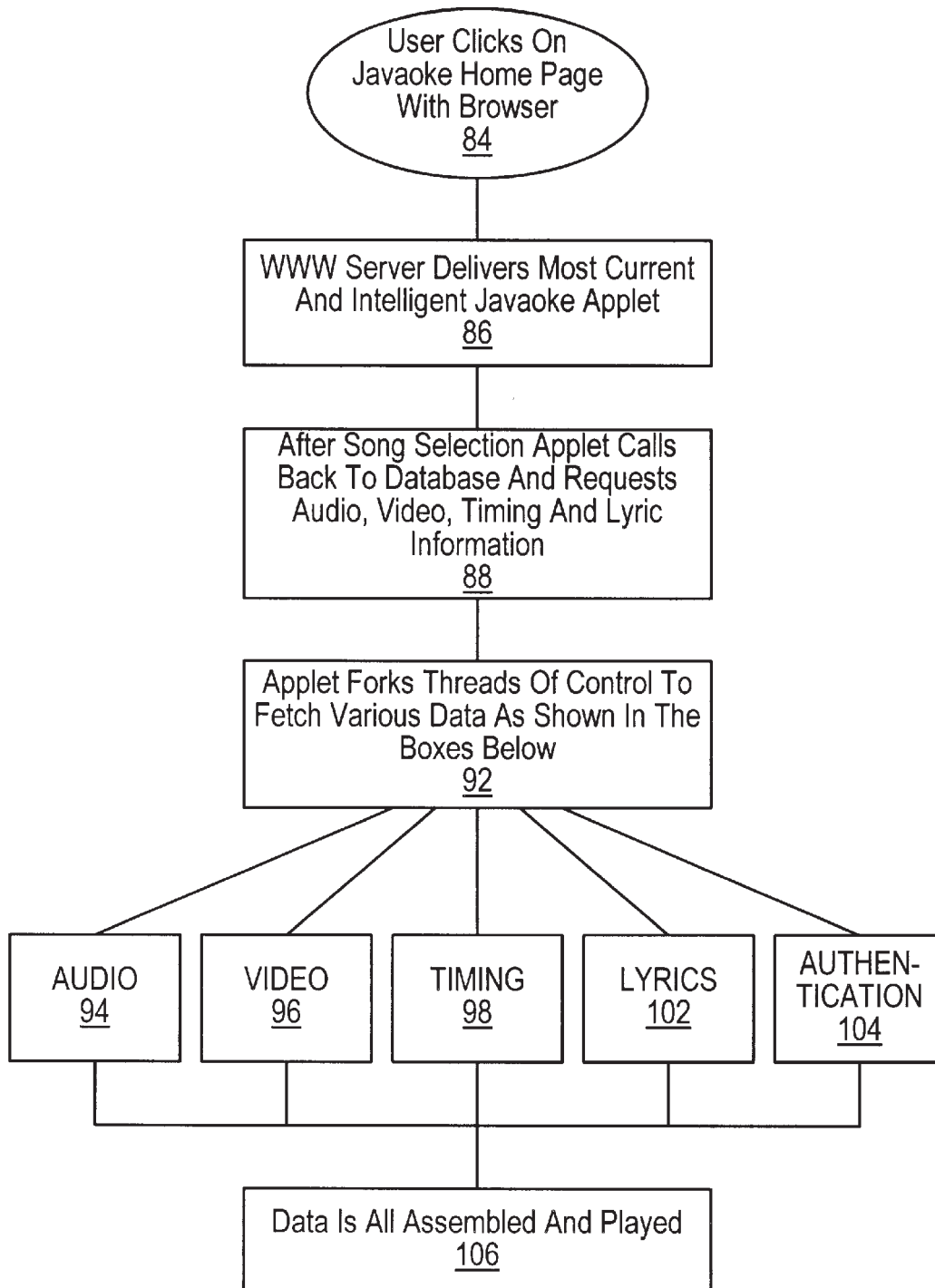


FIG. 4

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