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Scott et al.

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(54) **METHOD, SYSTEM, AND COMPUTER PROGRAM PRODUCT FOR PROVIDING VOICE OVER THE INTERNET COMMUNICATION**

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(51) **Int. Cl.**⁷ **H04L 12/66**

(52) **U.S. Cl.** **370/352; 370/401; 379/121.04**

(58) **Field of Search** 370/352, 354, 370/356, 389, 395.52, 493, 400, 401, 399, 409, 410, 402, 395.61; 709/229, 223, 203, 204, 227, 248, 220, 230; 707/204, 501; 379/93.02, 133, 93.03, 93.01, 112.01, 114.01, 121.06, 121.04; 713/184; 714/4, 16, 3, 48, 13

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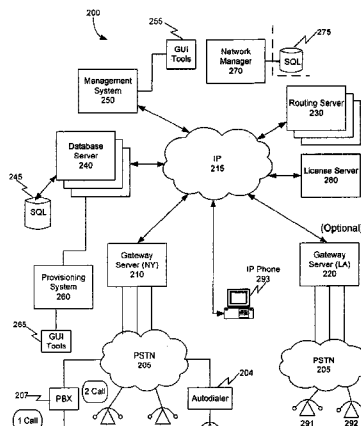
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(57) **ABSTRACT**

A method, system, and computer program product that provides voice over the Internet communication. A Voice over the Internet (VoIP) system includes a gateway server that handles calls received from a public switched telephone network and a packet-switched network, a routing server, and a database server. Messages can be sent between the gateway server, routing server, and database server over the packet-switched network. A provisioning system is coupled to the database server. A management system is also coupled to the gateway server, routing server, database server, and management system over the packet-switched network. A network manager automatically queries a client database to determine an update, and sends a message representative of the update to at least one of the gateway server, routing server, database server, and management system over the packet-switched network. A licensing server supports licensing of the VoIP system.

6 Claims, 7 Drawing Sheets



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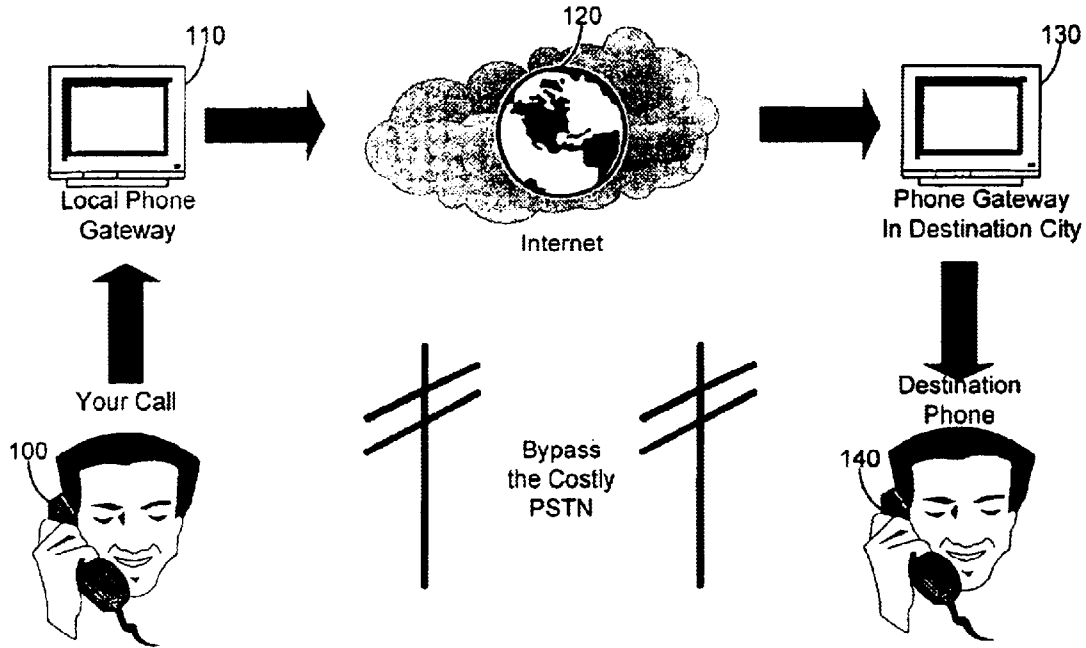


FIG. 1A

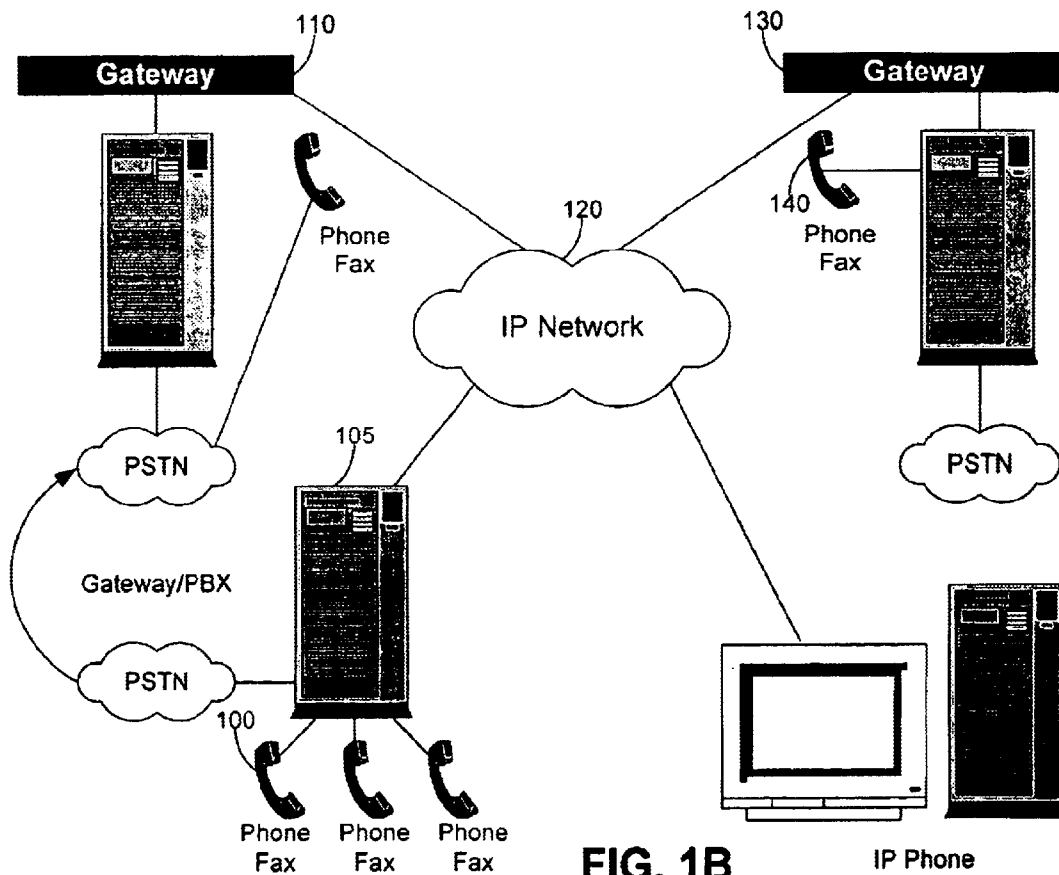


FIG. 1B

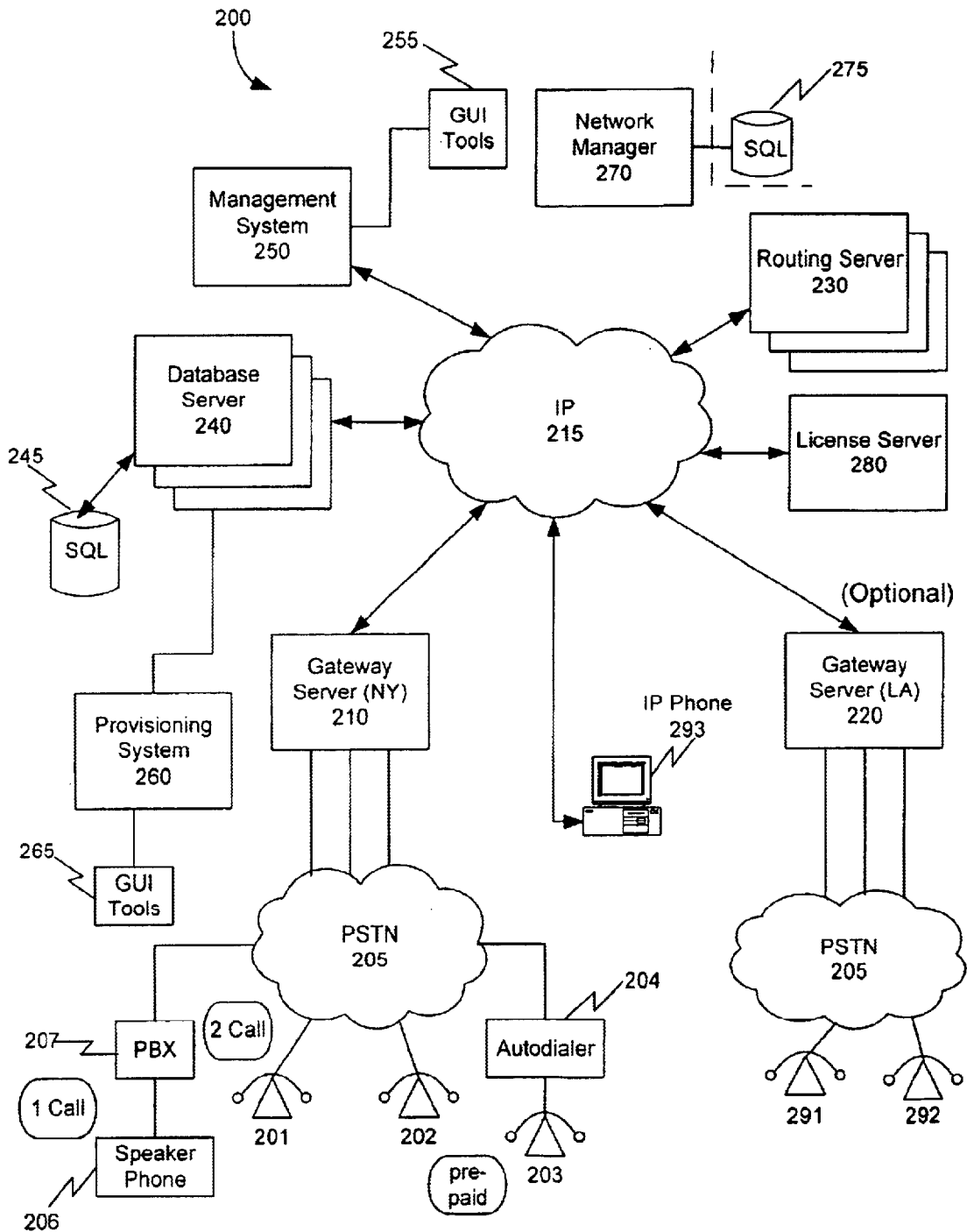


FIG. 2

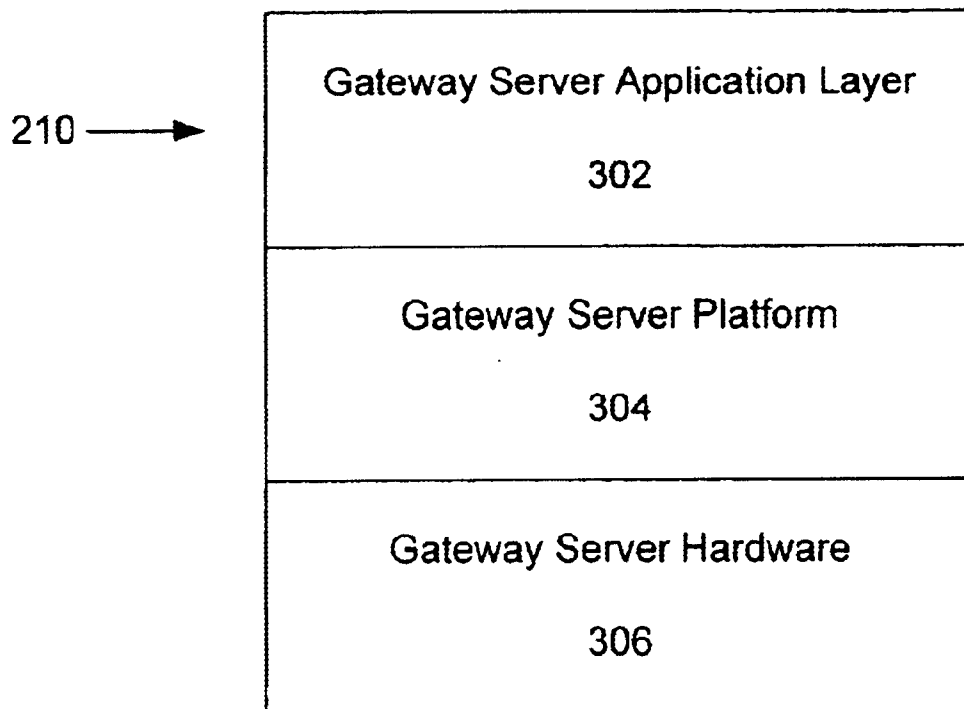


FIG. 3A

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