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Radulovic

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(54) **PRIVATE IP COMMUNICATION NETWORK ARCHITECTURE**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 513 days.

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(57) **ABSTRACT**

(22) Filed: **Sep. 6, 2000**

Related U.S. Application Data

(63) Continuation-in-part of application No. 08/599,238, filed on Feb. 9, 1996, now abandoned, and a continuation-in-part of application No. 08/585,628, filed on Jan. 16, 1996, now abandoned.

A disclosed Internet Linked Network Architecture delivers telecommunication type services across a network utilizing digital technology. The unique breadth and flexibility of telecommunication services offered by the Internet Linked Network Architecture flow directly from the network over which they are delivered and the underlying design principles and architectural decisions employed during its creation. The present invention supports current telecommunication and voice over IP standards and applications. This new network not only replaces the telecommunication network presently in place, but it also offers a more feature rich and cost effective alternative. For example, traditional telecommunication switches are more expensive, less reliable and slower than the faster digital data switches utilized in the present invention. Furthermore, the programmable nature of the digital devices comprising the present invention allows the new network to be built with a scalable and extensible architecture, providing the flexibility necessary to incorporate new or future digital enhancements. The inventive network is designed as a complete replacement for the traditional telecom network. The disclosed architecture allows for this network to connect to traditional networks and allows for an upgrade path. The design is robust and scalable so this network can introduce new features and functionality while preserving the quality of traditional networks.

(51) **Int. Cl.**
H04L 12/56 (2006.01)

(52) **U.S. Cl.** **370/356; 370/401**

(58) **Field of Classification Search** 370/259, 370/260, 261, 351, 352, 356, 401, 464, 465, 370/466, 467

See application file for complete search history.

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39 Claims, 5 Drawing Sheets

