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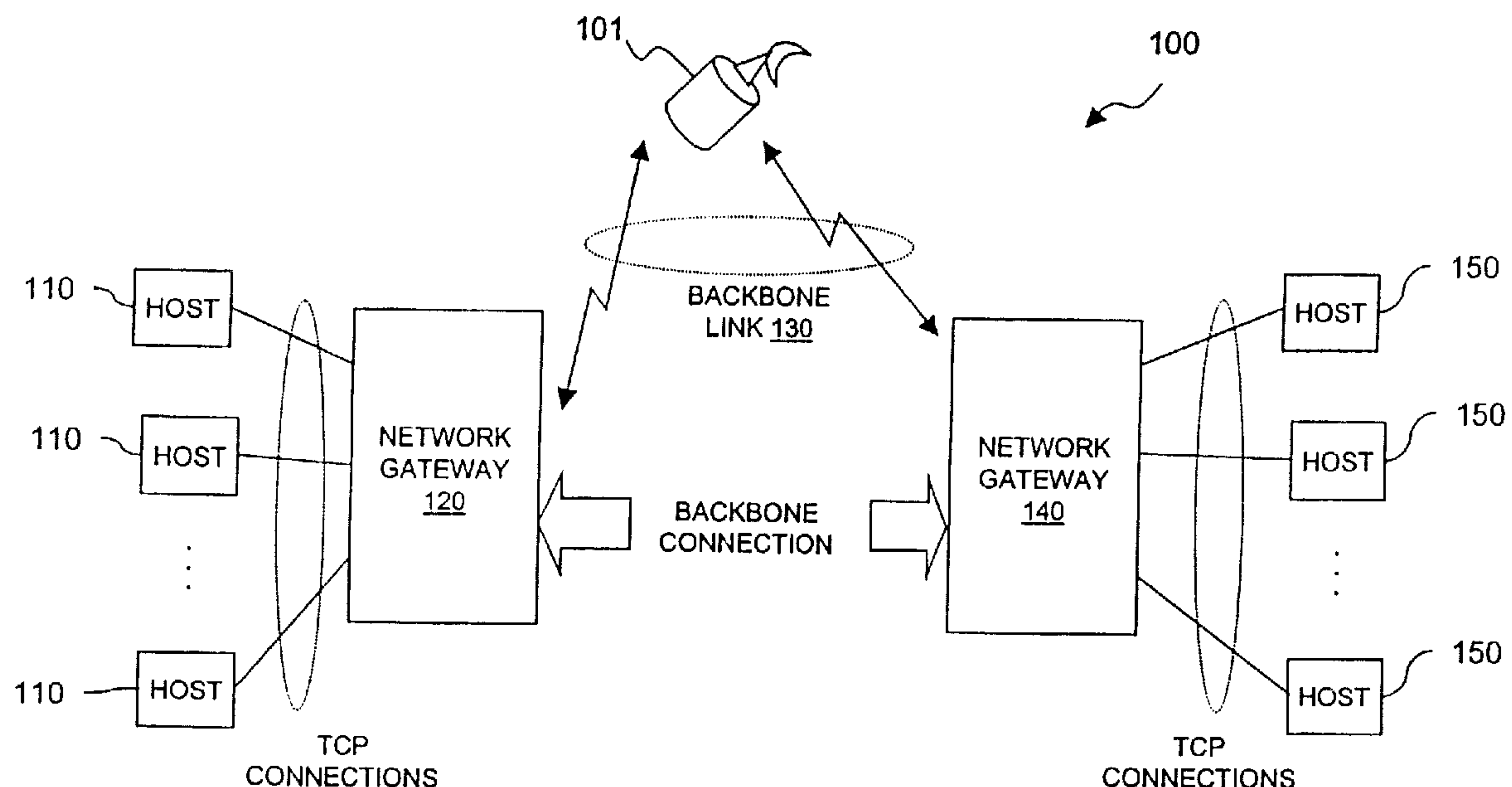
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(54) Titre : GESTION DE RESEAU DE L'ARCHITECTURE REHAUSSANT LA PERFORMANCE DU PROXY

(54) Title: NETWORK MANAGEMENT OF A PERFORMANCE ENHANCING PROXY ARCHITECTURE



(57) **Abrégé/Abstract:**

A communication system having a proxy architecture is disclosed. The system includes a platform that provides performance enhancing functions. The platform includes a management protocol agent that gathers information associated with the platform. The system also includes a network management system that communicates with the platform. The network management system receives information from the management protocol agent. The information provides at least one of event data and alarm data, wherein the platform has a profile that specifies configuration parameters. The network management system is configured to selectively modify the profile in response to the received information and to forward the modified profile to the platform. The above arrangement has particular applicability to a bandwidth constrained communication system, such as a satellite network.



NETWORK MANAGEMENT OF A PERFORMANCE
ENHANCING PROXY ARCHITECTURE

ABSTRACT OF THE DISCLOSURE

[141] A communication system having a proxy architecture is disclosed. The system includes a platform (210) that provides performance enhancing functions. The platform (210) includes a management protocol agent that gathers information associated with the platform (210). The system also includes a network management system (1213) that communicates with the platform (210). The network management system (1213) receives information from the management protocol agent. The information provides at least one of event data and alarm data, wherein the platform (210) has a profile that specifies configuration parameters. The network management system (1213) is configured to selectively modify the profile in response to the received information and to forward the modified profile to the platform (210). The above arrangement has particular applicability to a bandwidth constrained communication system, such as a satellite network.

TITLE OF THE INVENTIONNETWORK MANAGEMENT OF A PERFORMANCE
ENHANCING PROXY ARCHITECTURECROSS-REFERENCES TO RELATED APPLICATION

This application is related to and claims the benefit of priority to: (i) U.S. Provisional Patent Application (Serial No. 60/220,026), filed July 21, 2000, entitled "Performance Enhancing Proxy," and (ii) U.S. Provisional Patent Application (Serial No. 60/225,630), filed August 15, 2000, entitled "Performance Enhancing Proxy"; all of which are incorporated herein by reference in their entirety.

BACKGROUND OF THE INVENTIONField of the Invention:

The present invention relates to a communication system, and is more particularly related to a network management system utilized in a proxy architecture.

Discussion of the Background

The entrenchment of data networking into the routines of modern society, as evidenced by the prevalence of the Internet, particularly the World Wide Web, has placed ever-growing demands on service providers to continually improve network performance. To meet this challenge, service providers have invested heavily in upgrading their networks to increase system capacity (i.e., bandwidth). In many circumstances, such upgrades may not be feasible economically or the physical constraints of the communication system does not permit simply "upgrading." Accordingly, service providers have also invested in developing techniques to optimize the performance of their networks. Because much of today's networks are either operating with or are required to interface with the Transmission Control Protocol/Internet Protocol (TCP/IP) suite, attention has been focused on optimizing TCP/IP based networking operations.

As the networking standard for the global Internet, TCP/IP has earned such acceptance among the industry because of its flexibility and rich heritage in the research community. The transmission control protocol (TCP) is the dominant protocol in use today on the Internet. TCP is carried by the Internet protocol (IP) and is used in a variety of applications including

