Title: A TRANSMISSION SYSTEM, A METHOD AND AN APPARATUS PROVIDING ACCESS FOR IP DATA PACKETS TO A FIREWALL PROTECTED NETWORK

Abstract:

The invention provides a transmission system, for example, an ATM transmission system, which is adapted for the transmission of IP data packets, and which includes an IP-network, a network protected by a firewall, and means for temporarily opening the firewall to enable IP data packets to be transmitted through the firewall to the protected network. The firewall operates in a manner whereby a particular type of IP-packet, i.e. a Ping (ICMP)-packet, is allowed to pass through the firewall. IP-traffic can pass through the firewall from the inside thereof to the outside thereof, and IP-traffic, similar to that which is sent from the inside of the firewall to the outside of the firewall, can be transmitted through the firewall to the protected network for a limited period of time. In particular, the firewall opening means include two IC-breakers, which are located on opposite sides of said firewall, and which have a structure and functionality dictated by the manner in which the firewall operates. In other words, when an IP data packet, destined for the protected network, is received by the IC-breaker located on the outside of the firewall, the IC-breakers are adapted to communicate with each other to create the temporary opening in the firewall via which the IP data packet is sent to the protected network.
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**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/SE 99/01561

**A. CLASSIFICATION OF SUBJECT MATTER**

**IPC7**: H04L 29/06

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)

**IPC7**: H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

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**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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Date of the actual completion of the international search: 14 March 2000

Date of mailing of the international search report: 17-03-2000

**14 March 2000**

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