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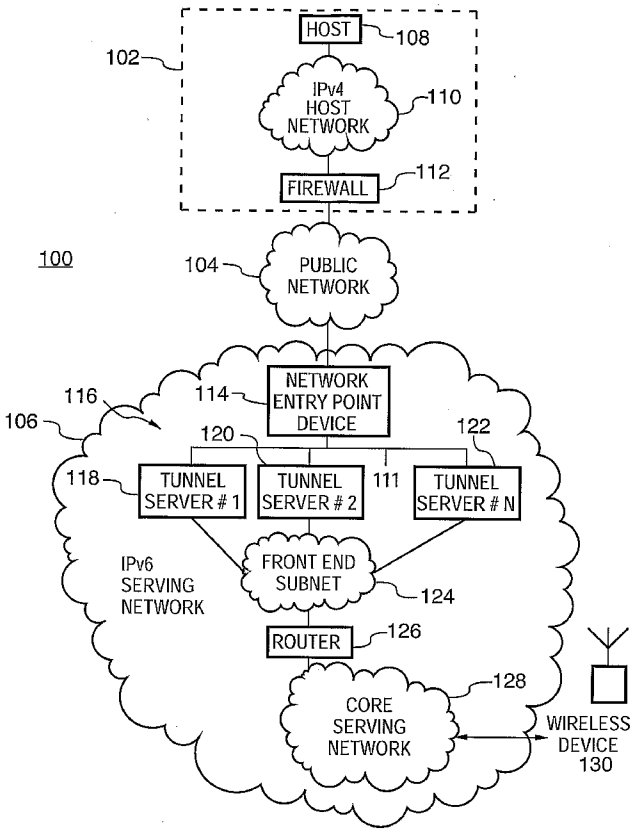
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(54) Title: DATA TRANSFER FROM A HOST SERVER VIA A TUNNEL SERVER TO A WIRELESS DEVICE, AND ASSOCIATING A TEMPORARY IPV6 ADDRESS WITH A TEMPORARY IPV4 ADDRESS FOR COMMUNICATING IN AN IPV4 WIRELESS NETWORK WITH THE DEVICE



(57) Abstract: A front end of an IPv6 communication network includes a network entry point device (114) and a plurality of tunnel servers (118) which facilitate the communication of user information between a host computer (108) of an IPv4 communication network (110) and an IPv6 wireless communication device (130). The network entry point device is configured to direct a tunnel request from the host computer to a selected tunnel server, which establishes a tunnel connection with the host computer. For the tunnel connection, the data packets can be encapsulated based on SSH, PPTP, L2TP, IPSec or PP standards. The tunnel server facilitates the communication of user information between the host and the wireless device through the tunnel connection. The tunnel server also performs a dynamic routing protocol (DRP). In accordance with the DRP, the tunnel server updates a local routing table to reflect the newly established tunnel connection and broadcasts updated routing table information to the other tunner servers and at least one router (126). In another technical aspect, a back end of the IPv6 wireless device when it operates in an IPv4 wireless communication network. This can be achieved ba a router (126) encapsulating packets to the temporary Ipv6 - address assigned to a wireless device (130) using a temporary IPv4 - address.

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TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

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