EXHIBIT 1006



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(54) TECHNIQUE FOR INTERNETWORKING TRAFFIC ON CONNECTIONLESS AND CONNECTION-ORIENTED NETWORKS

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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 0 days.

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(22) Filed: Mar. 3, 1999

(51) **Int. Cl.**⁷ **H04**L **12/56**; H04L 12/64; H04L 12/66

466, 468, 477

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(57) ABSTRACT

Traffic on a connectionless (CL) network, such as IP packets, can be routed onto a connection a connection oriented (CO) network, such as an ATM telephony network, when it is advantageous to do so from a user or service provider viewpoint, without affecting the ability of users to continue to use existing applications. Routing is controlled by nodes called CL-CO gateways, with connectivity to both the CL network and the Co network. When CL traffic originating at a source reached these gateway nodes, a decision is made whether to continue carrying the information in the CL mode, or to redirect the traffic to a CO network. In accordance with one embodiment of the present invention, each CL-Co gateway includes hardware and software modules that typically comprise (a) interfaces to the Co network, (b) interfaces to the CL network (c) a moderately sized packet buffer for temporarily storing packets waiting for CO network setup or turnaround; (d) a database for storing forwarding, flow control header translation and other information, and (e) a processor containing logic for controlling the gateway packet handling operations.

19 Claims, 9 Drawing Sheets

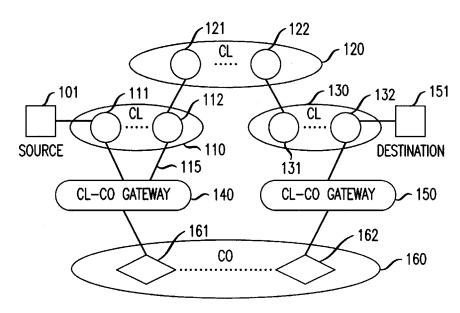




FIG. 1

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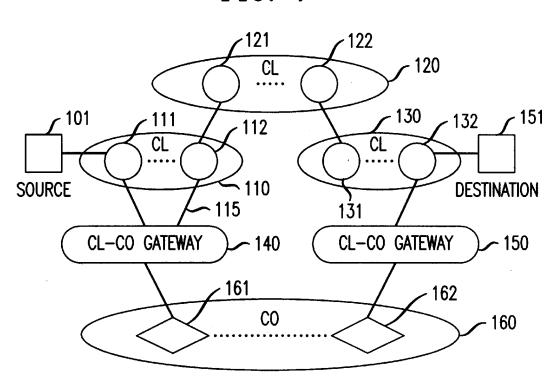


FIG. 2

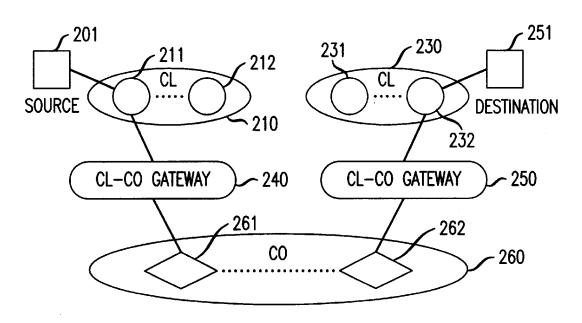
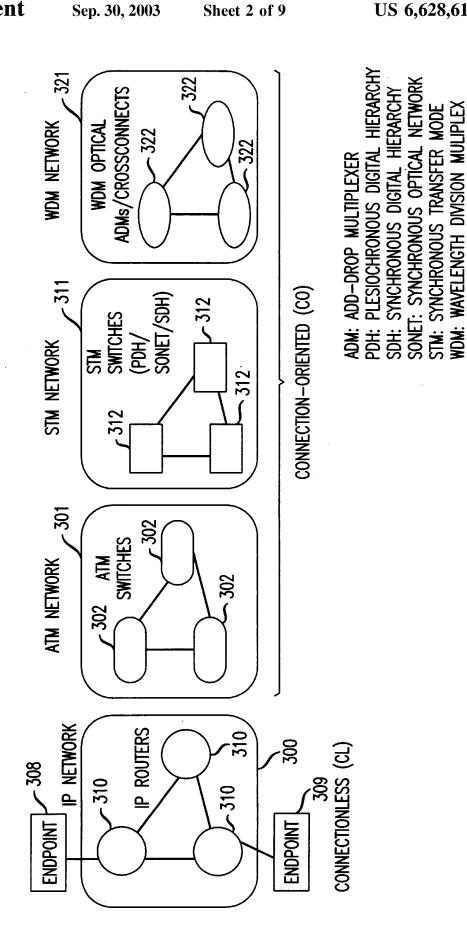
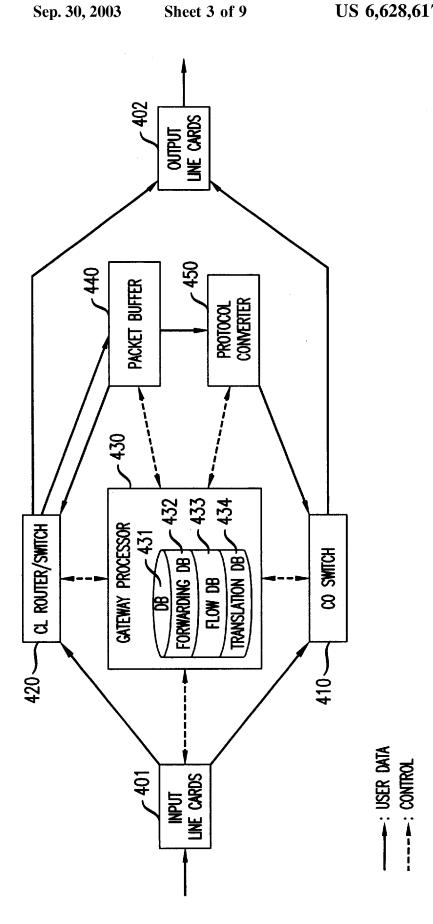


FIG. 3





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