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Teraslinna

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[54] METHODS AND SYSTEMS FOR MANAGING BANDWIDTH RESOURCES IN A FAST PACKET SWITCHING NETWORK

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[21] Appl. No.: 410,369

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112, 85.2

[56]

References Cited

U.S. PATENT DOCUMENTS

5,276,676 1/1994 Horn et al. 370/9 5,280,470 1/1994 Buhrke et al. 370/94 5,285,446 2/1994 Yonehara 370/60 5,303,233 4/1994 Sugawara 370/60 5,432,783 7/1995 Ahmed et al. 370/60 5,442,624 8/1995 Bonomi et al. 370/60 5,448,559 9/1995 Hayter et al. 370/60

OTHER PUBLICATIONS

"The Asynchronous Transfer Mode: a tutorial", Jean-Yves Le Boudec, Computer Networks and ISDN Systems 24 (1992), pp. 279-309.

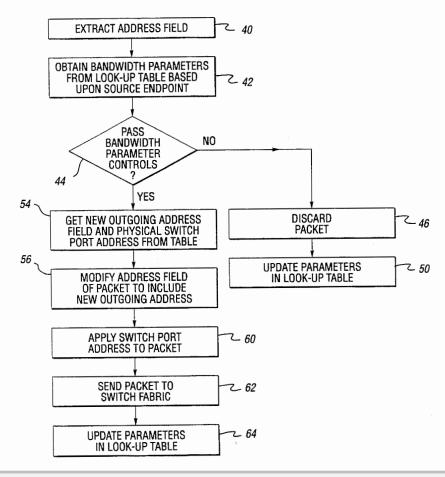
Paper on "Requirements for Phase 2 Signaling Protocol", ATM Forum Technical Committee Meeting; Jan. 17–20, 1994

Primary Examiner—Douglas W. Olms Assistant Examiner—Ajit Patel Attorney, Agent, or Firm—Brooks & Kushman

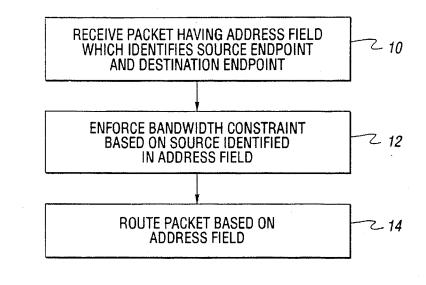
[57] ABSTRACT

Methods and systems for resource management in a fast packet switching communication network are disclosed. A packet containing an address field identifying a source endpoint and a destination endpoint is received. A bandwidth constraint based upon the source endpoint, but independent of the destination endpoint, is enforced for the packet. In a communication network wherein a plurality of virtual connections are provisioned from a single source endpoint to a plurality of destination endpoints, the bandwidth constraint is associated with bandwidth usage over all of the virtual connections.

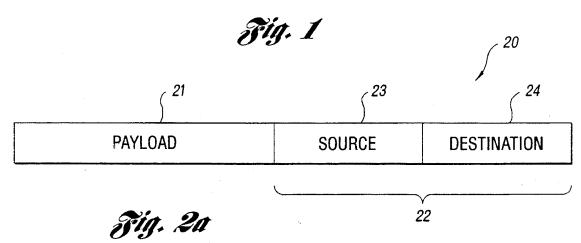
6 Claims, 6 Drawing Sheets

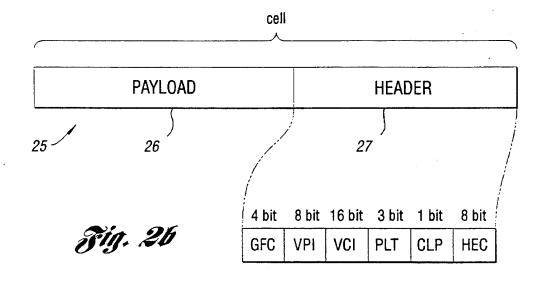


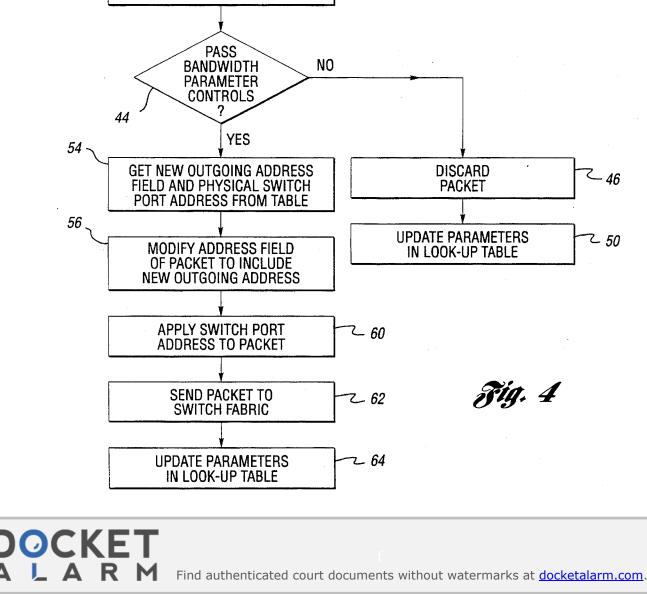




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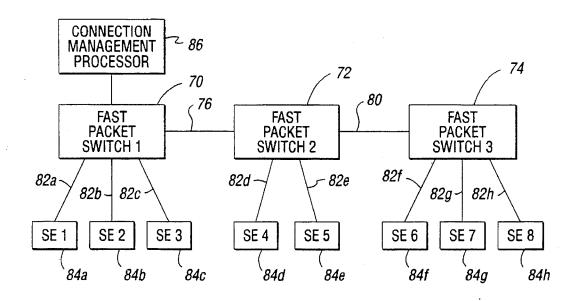
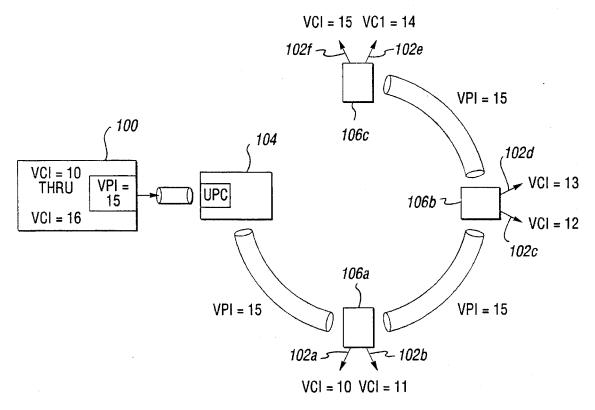
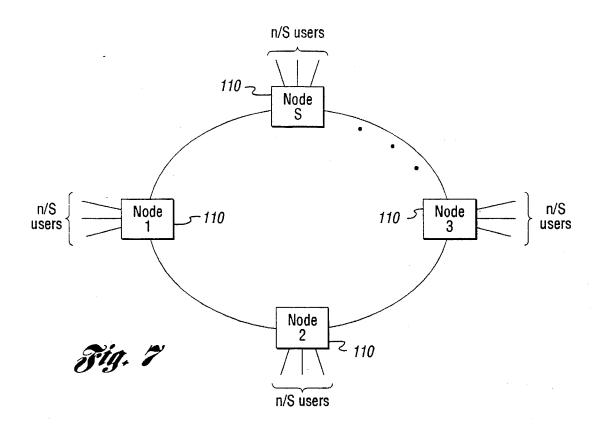


Fig. 5

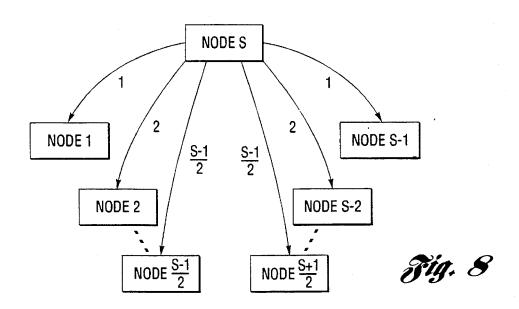








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