

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

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[51] Int. Cl.<sup>6</sup> ..... **H04J 3/24**  
 [52] U.S. Cl. .... **370/397; 370/468**  
 [58] Field of Search ..... 370/60, 60.1, 58.1-58.3, 370/94.1, 94.3, 17, 118, 94.2, 15, 16, 110.1, 112, 85.2

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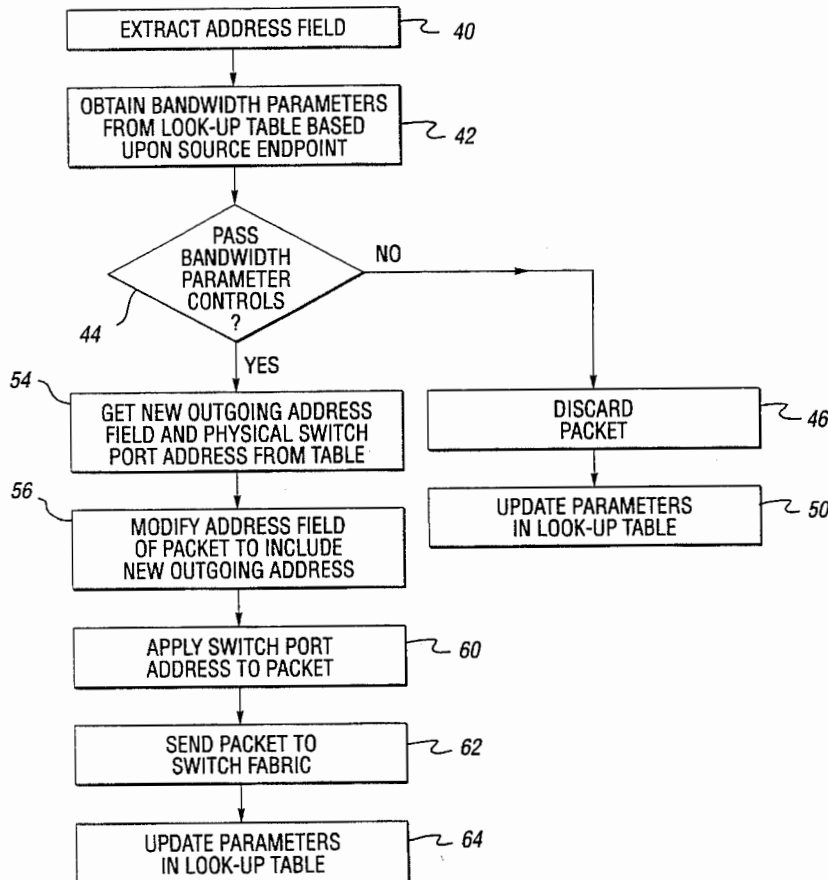
Paper on "Requirements for Phase 2 Signaling Protocol", ATM Forum Technical Committee Meeting; Jan. 17-20, 1994.

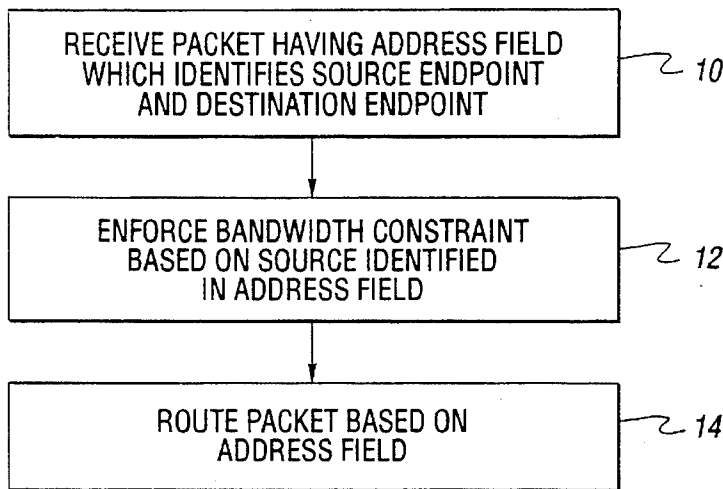
*Primary Examiner*—Douglas W. Olms  
*Assistant Examiner*—Ajit Patel  
*Attorney, Agent, or Firm*—Brooks & Kushman

[57] **ABSTRACT**

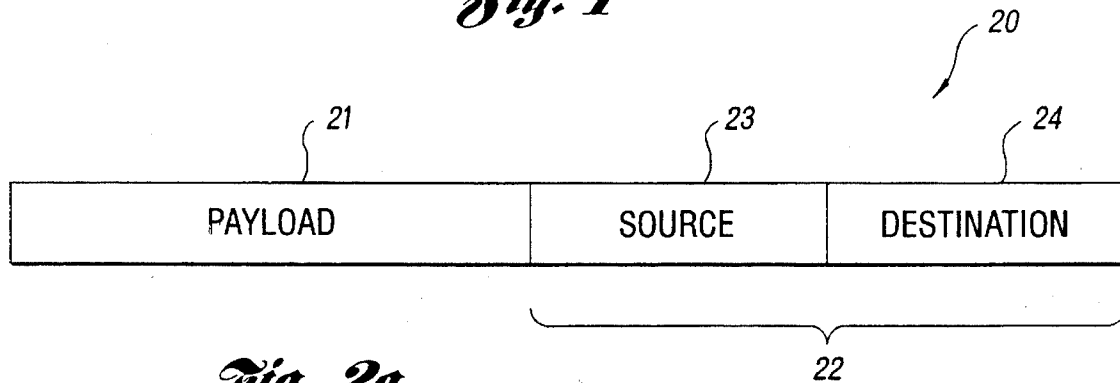
Methods and systems for resource management in a fast packet switching communication network are disclosed. A packet containing an address field identifying a source endpoint and a destination endpoint is received. A bandwidth constraint based upon the source endpoint, but independent of the destination 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**

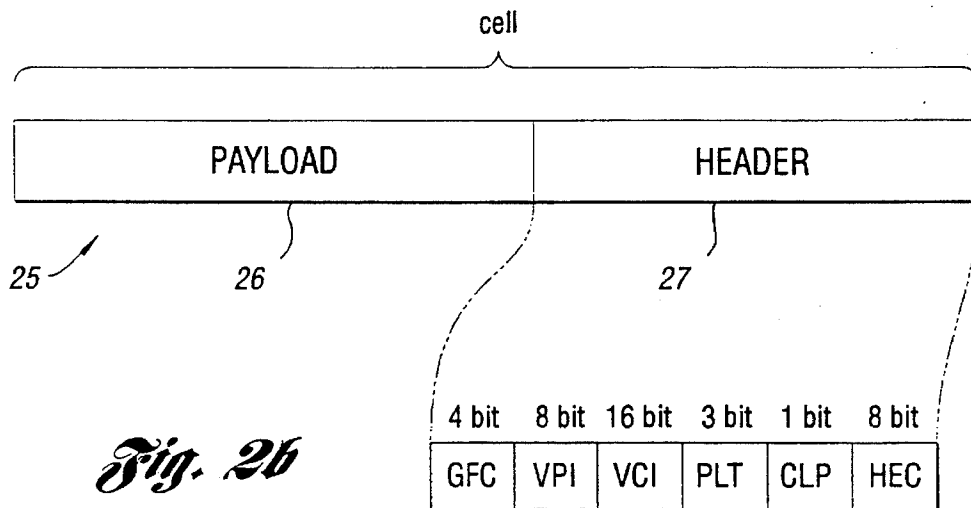




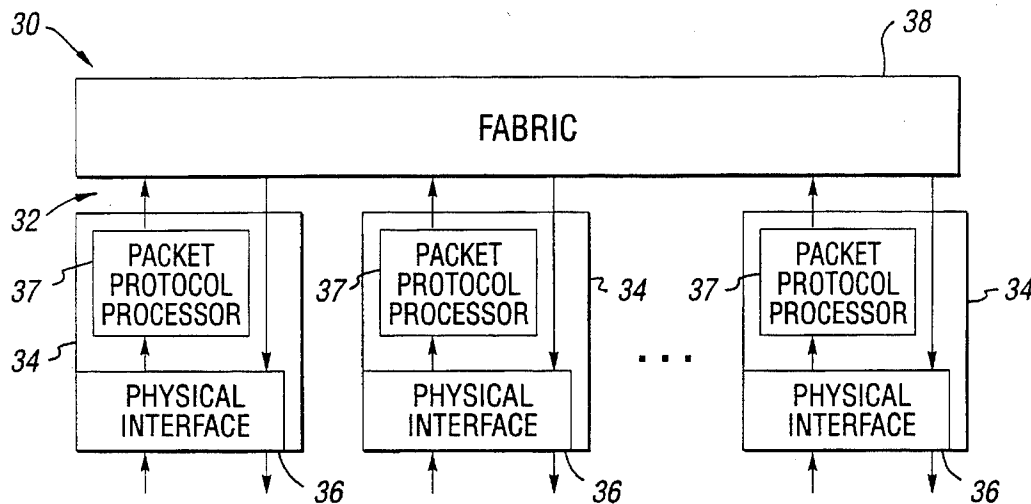
*Fig. 1*



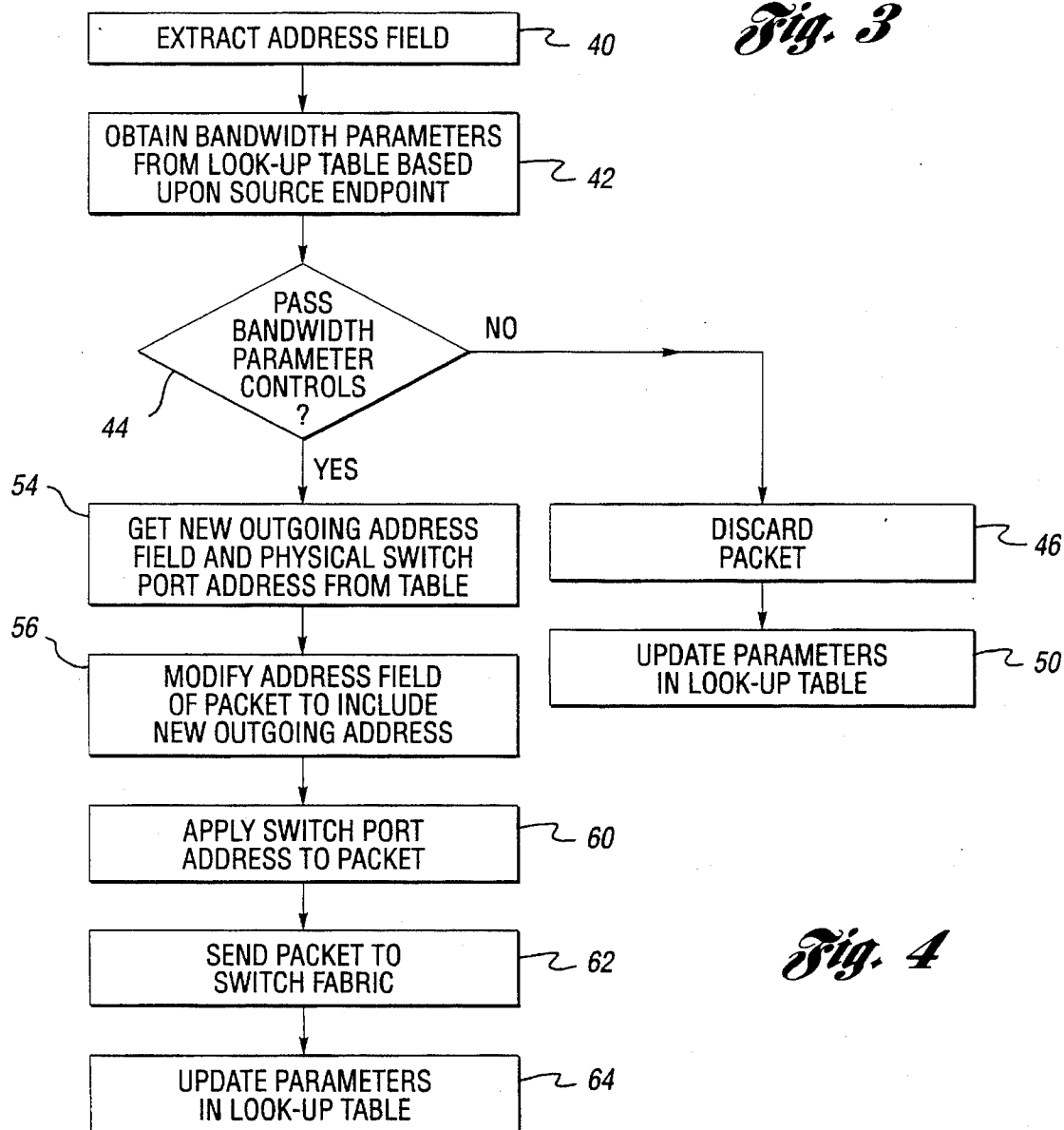
*Fig. 2a*



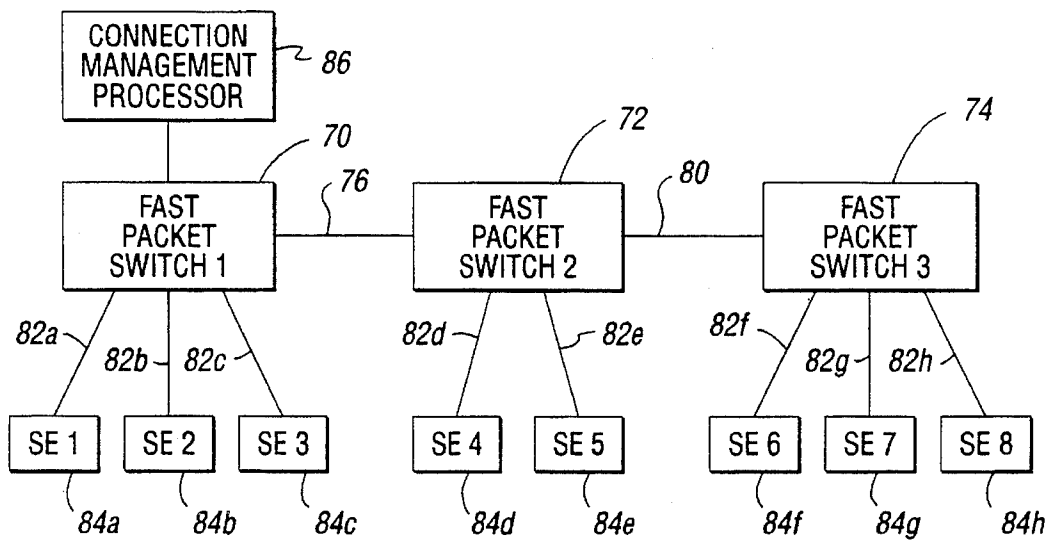
*Fig. 2b*



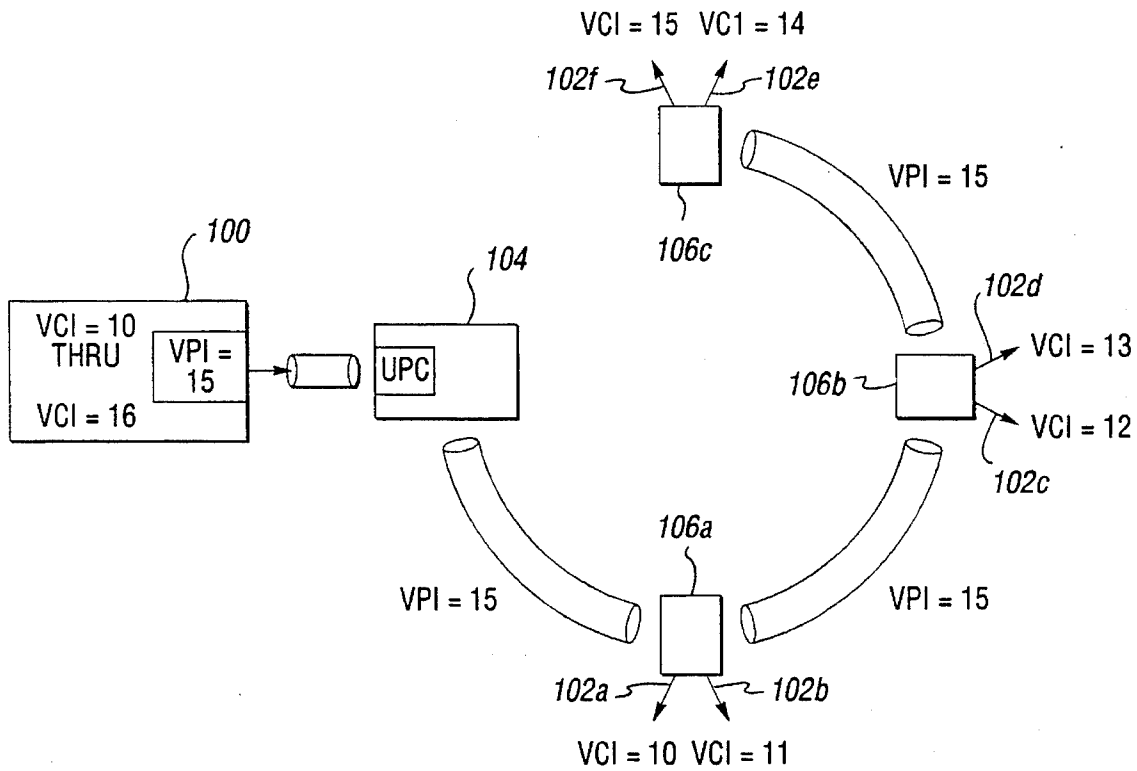
*Fig. 3*



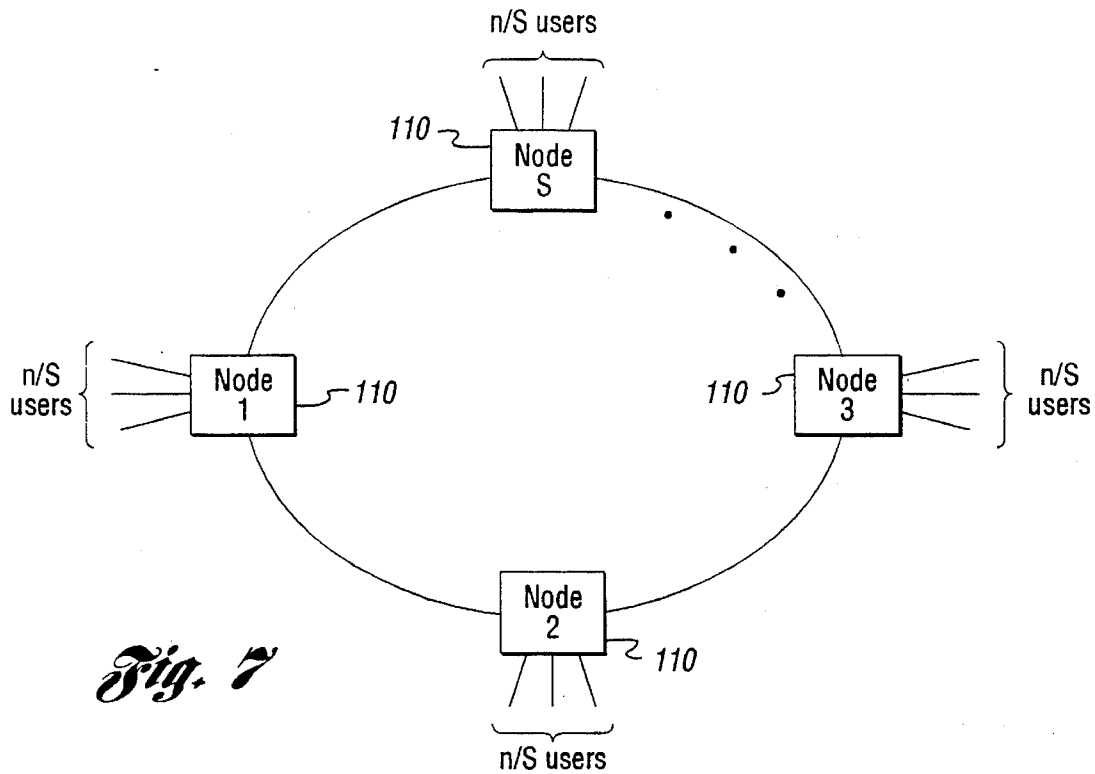
*Fig. 4*



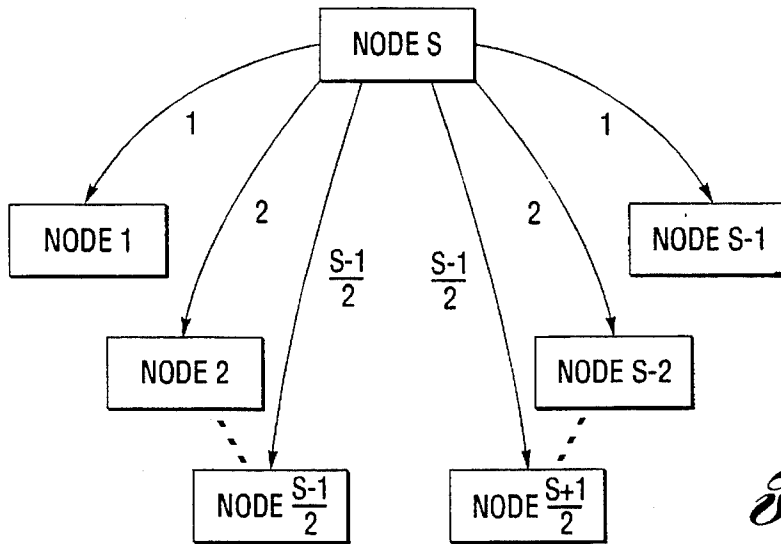
*Fig. 5*



*Fig. 6*



*Fig. 7*



*Fig. 8*

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