

EXHIBIT

1015



(12) **United States Patent**
Hodgkinson et al.

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(45) **Date of Patent:** **Nov. 13, 2001**

- (54) **ATM PARTIAL CUT-THROUGH**
- (75) **Inventors:** **Terence G Hodgkinson**, Suffolk; **Alan W O'Neill**, Ipswich, both of (GB)
- (73) **Assignee:** **British Telecommunications public limited company**, London (GB)
- (*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) **Appl. No.:** **09/029,570**
- (22) **PCT Filed:** **Jun. 20, 1997**
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§ 102(e) Date: **Mar. 6, 1998**
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PCT Pub. Date: **Dec. 31, 1997**
- (30) **Foreign Application Priority Data**
Jun. 21, 1996 (GB) 9613020
- (51) **Int. Cl.⁷** **H04L 12/28; H04L 12/56; H04J 3/22; H04J 3/24**
- (52) **U.S. Cl.** **370/395; 370/392; 370/397; 370/466; 370/468**

(58) **Field of Search** 370/395, 392, 370/225, 256, 408, 409, 399, 466, 468, 469, 471, 478, 355, 254, 397, 401, 351

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Primary Examiner—Wellington Chin

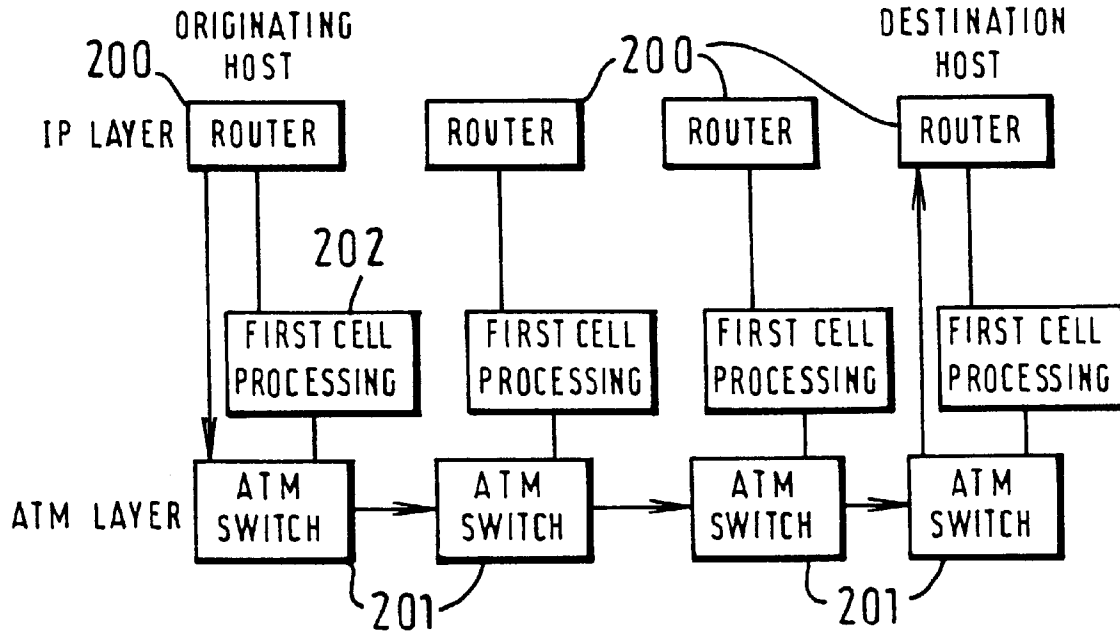
Assistant Examiner—M. Phan

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(57) **ABSTRACT**

A method of transmitting across an ATM network a connectionless datagram in a cell structure having the form of a plurality of ATM cells the first cell of which carries in its payload the routing information of the connectionless datagram, and wherein at an intermediate node of the network a connectionless routing function is carried out on said first cell with the remaining cells remaining in the ATM layer.

10 Claims, 5 Drawing Sheets



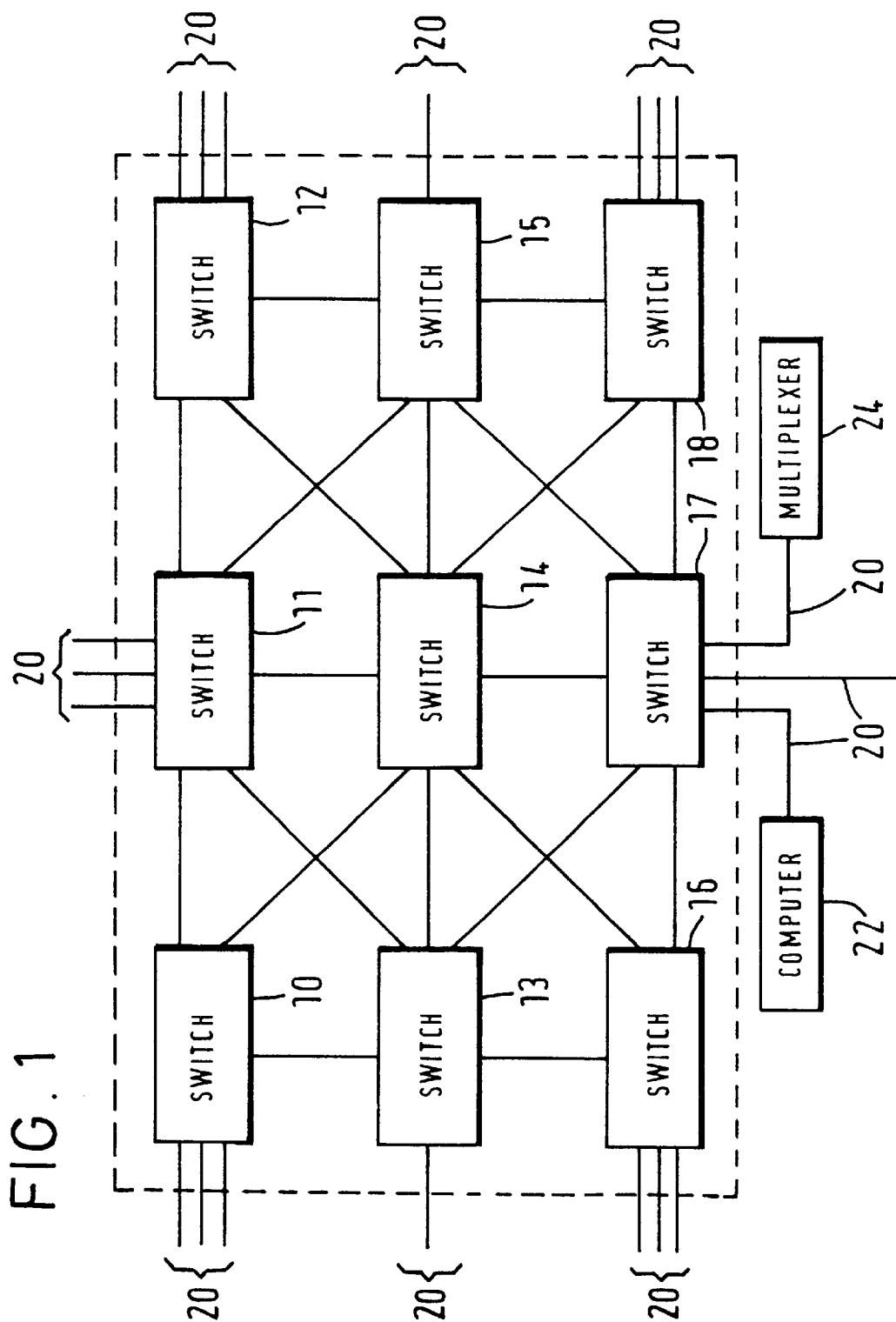


FIG. 1

FIG. 2

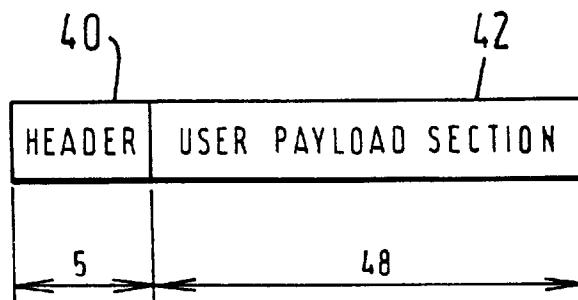


FIG. 3

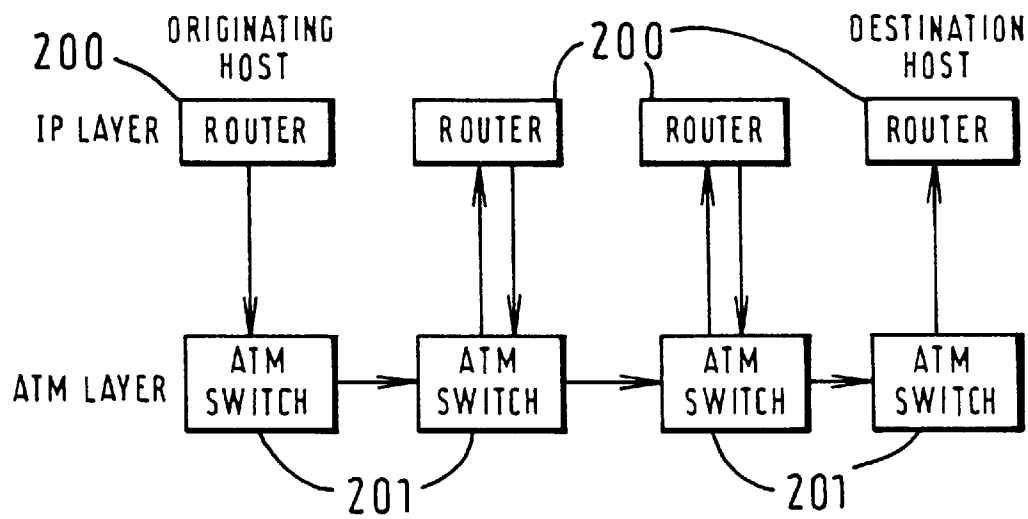


FIG. 4

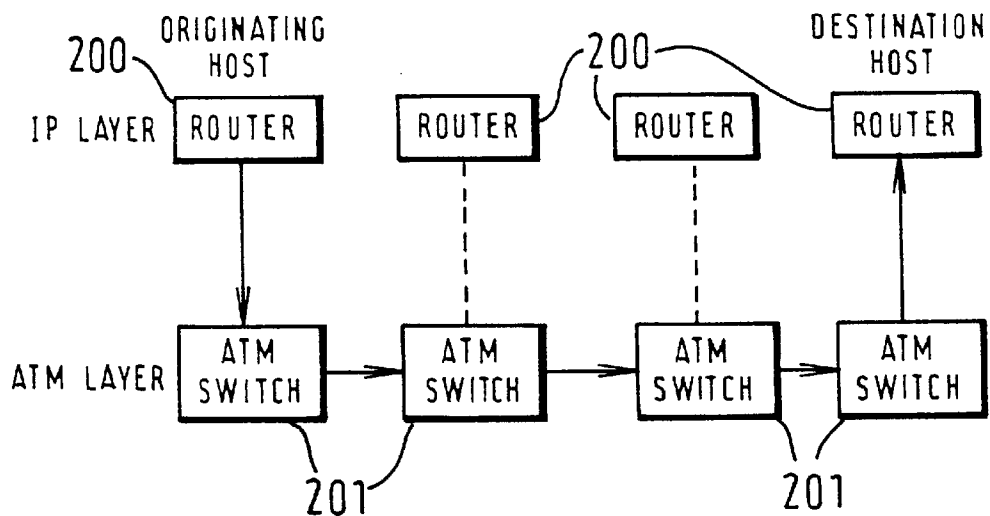
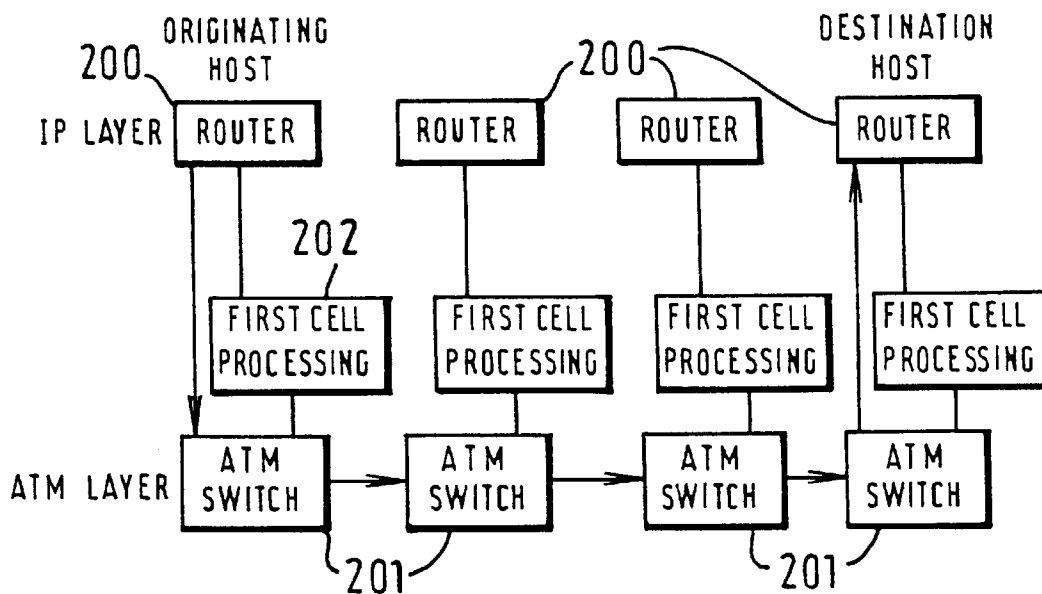


FIG. 5



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