EXHIBIT 1015



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(12) United States Patent Hodgkinson et al.

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(54) ATM PARTIAL CUT-THROUGH

Inventors: Terence G Hodgkinson, Suffolk; Alan W O'Neill, Ipswich, both of (GB)

Assignee: British Telecommunications public (73)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.

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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	2,
	370/225, 256, 408, 409, 399, 466, 46	8,
	469, 471, 478, 355, 254, 397, 401, 35	51

(56)**References Cited**

U.S. PATENT DOCUMENTS

5,432,777	*	7/1995	Le Boudec et al 370/60
5,440,547	*	8/1995	Easki et al 370/60
5,548,589	*	8/1996	Jeon et al 370/60.1
5,764,645	*	6/1998	Bernet et al 370/466
5,835,710	*	11/1998	Nagami et al 395/200.8
5,872,773	*	2/1999	Katzela et al 370/256
5,903,559	*	5/1999	Acharya et al 370/55

* cited by examiner

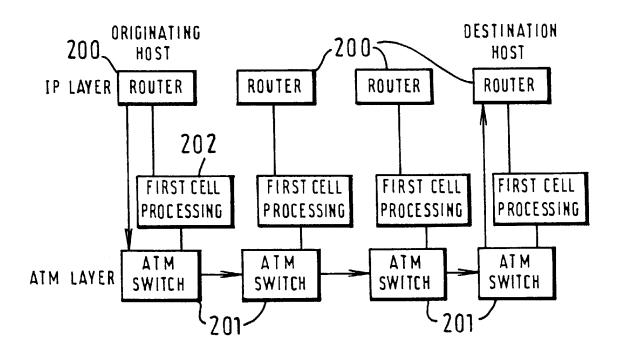
Primary Examiner—Wellington Chin Assistant Examiner—M. Phan

(74) Attorney, Agent, or Firm-Nixon & Vanderhye, P.C.

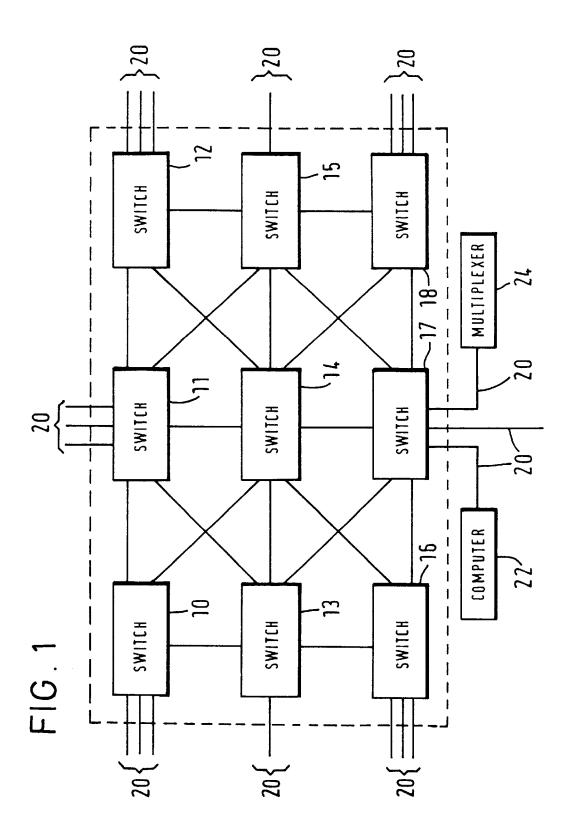
(57)**ABSTRACT**

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.

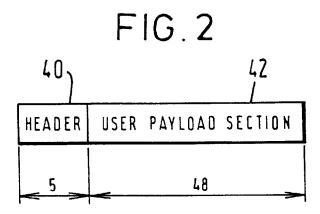
10 Claims, 5 Drawing Sheets











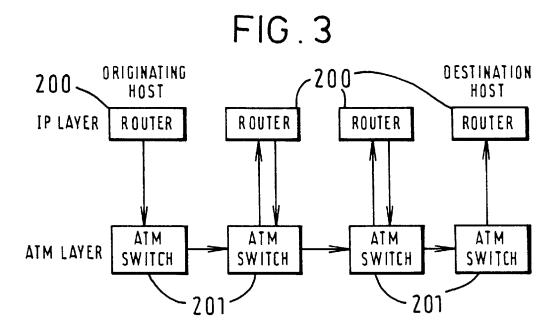




FIG. 4

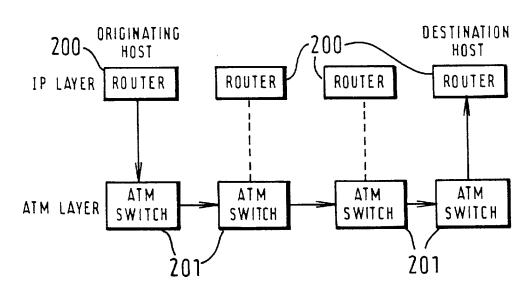
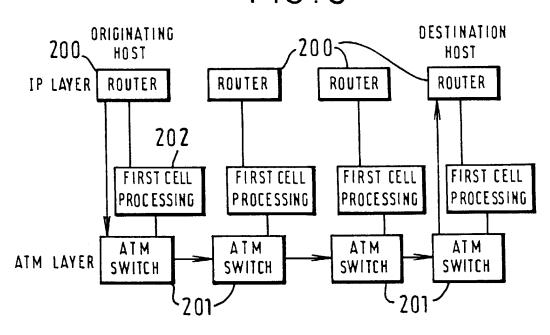


FIG.5





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