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Packer et al.

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[54] METHOD FOR PACING DATA FLOW IN A PACKET-BASED NETWORK

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Related U.S. Application Data

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[51]	Int. Cl. ⁷	 H04L 12/56
[~~]		

U.S. Cl. **370/231**; 370/235; 370/252 [52]

[58] 370/231, 235, 229, 230, 232, 233, 234, 236-238; 709/232, 233, 234, 235

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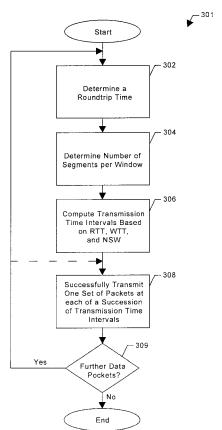
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Primary Examiner—Douglas W. Olms Assistant Examiner—Kon Vanderpuye Attorney, Agent, or Firm-Townsend and Townsend and Crew LLP; Kenneth R. Allen

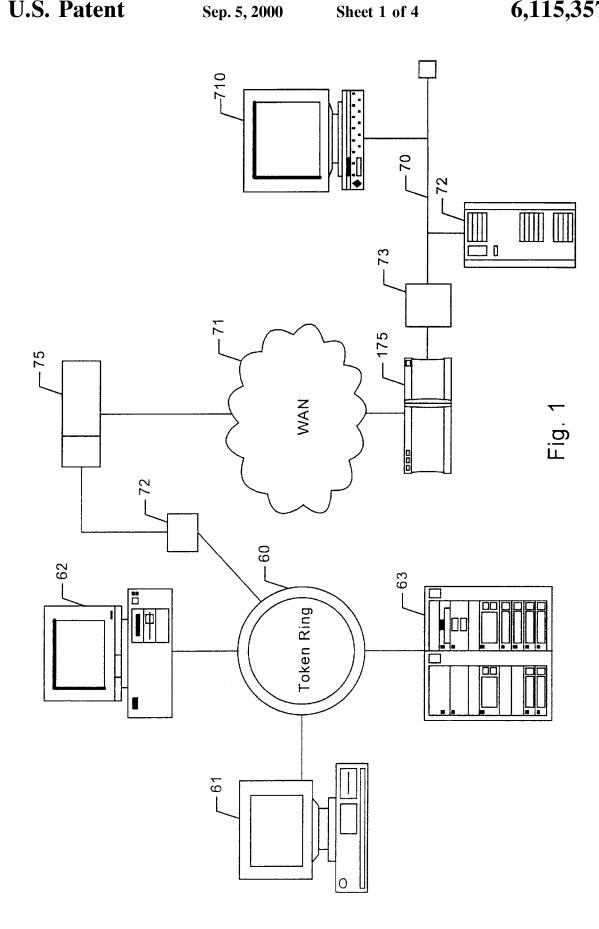
ABSTRACT

A method for pacing data flows in packet switched networks by arranging data transmission over a period of time based upon a set of ascertainable factors about the underlying transmission link to derive an intersegment transmission interval. The intersegment transmission interval can be used to pace either data packets or acknowledgment packets. The method is especially useful for pacing the transmission of data in a digital data packet communication environment having a plurality of digital packet transmission stations inter-connectable in a data path and employing the Transmission Control Protocol (TCP) suite.

18 Claims, 4 Drawing Sheets







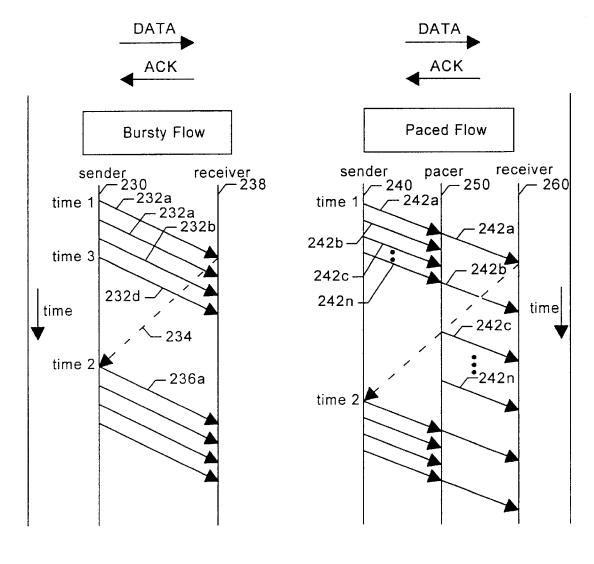


Fig. 2A

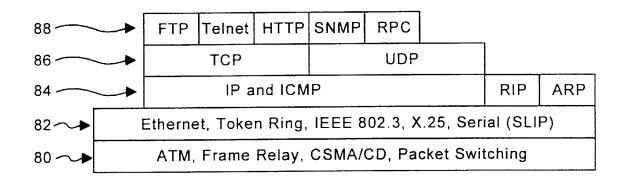
Fig. 2B



Fig. 3

No

End



Legend

- 88 Session/Application Layer
- 86 Transport Layer
- 84 Network Layer
- 82 Data Link Layer
- 80 Physical Layer

Fig. 4

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