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(12) **United States Patent**  
**Goldstein**

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(54) **SYSTEM AND METHOD FOR DATA ACCESS**

6,279,041 B1 \* 8/2001 Baber et al. .... 709/232

(75) Inventor: **Leonid Goldstein, Herzlia (IL)**

**OTHER PUBLICATIONS**

(73) Assignee: **ProxyConn, Inc., Irvine, CA (US)**

RFC2068: Hypertext Transfer Protocol—HTTP/1.1, Jan. 1997, pp. 9–12, 29–35, 70–94, 101–138.

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

RFC791: Internet Protocol Darpa Internet Program Protocol Specification, Sep. 1981, pp. 3, 11–14, 26.

(21) Appl. No.: **09/398,007**

RFC761: DOD Standard Transmission Control Protocol, Jan. 1980, pp.4, 15–17.

(22) Filed: **Sep. 16, 1999**

RFC1826: IP Authentication Header, Aug. 1995, pp. 1–10.

(51) **Int. Cl.**<sup>7</sup> ..... **G06F 15/16**

RFC1864: The Content—MD5 Header Field, Oct. 1995, pp.1–2.

(52) **U.S. Cl.** ..... **709/217; 707/1; 707/10; 709/203; 709/225; 709/229**

RFC1321: The MD5 Message—Digest Algorithm, Apr. 1992, pp. 1–21.

(58) **Field of Search** ..... **709/217, 203, 709/229, 225; 707/10, 1**

Dave Fogle, Ethernet Frame Types, article from Feb. 1996 issue of LAN Magazine/Network Magazine, pp. 1–4.

W. Richard Stevens, TCP/IP Illustrated, vol. 1, 1994, pp. 33–37, 143–147, 223–228.

(56) **References Cited**

\* cited by examiner

**U.S. PATENT DOCUMENTS**

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*Assistant Examiner*—Hai V. Nguyen

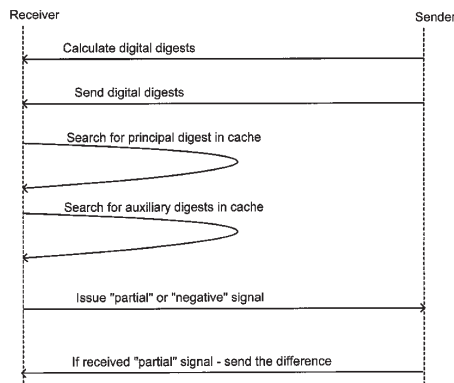
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4,897,781 A	1/1990	Chang et al.	
5,384,565 A	1/1995	Gregory	
5,682,514 A	* 10/1997	Yohe et al. ....	707/1
5,732,265 A	3/1998	Dewitt et al.	
5,835,943 A	11/1998	Yohe et al.	
5,852,717 A	12/1998	Bhide et al.	
5,864,837 A	1/1999	Maimone	
5,878,213 A	* 3/1999	Bittinger et al. ....	707/10
5,909,569 A	* 6/1999	Housel et al. ....	707/10
5,919,247 A	* 7/1999	Van Hoff et al. ....	709/217
5,924,116 A	7/1999	Aggarwal et al.	
5,931,947 A	* 8/1999	Burns et al. ....	713/201
5,978,791 A	11/1999	Farber et al.	
6,003,087 A	* 12/1999	Housel et al. ....	707/203
6,006,034 A	12/1999	Heath et al.	
6,012,085 A	1/2000	Yohe et al.	
6,021,491 A	* 2/2000	Renaud .....	713/179
6,073,173 A	* 6/2000	Bittinger et al. ....	707/513
6,085,249 A	* 7/2000	Wang et al. ....	709/229
6,101,543 A	* 8/2000	Alden et al. ....	709/229
6,122,637 A	* 9/2000	Yohe et al. ....	709/204
6,134,583 A	* 10/2000	Herriot .....	709/217
6,148,340 A	* 11/2000	Bittinger et al. ....	709/203
6,256,664 B1	* 7/2001	Donoho et al. ....	709/204

(57) **ABSTRACT**

The invention provides a system for data access in a packet-switched network, including a sender/computer including an operating unit, a first memory, a permanent storage memory and a processor and a remote receiver/computer including an operating unit, a first memory, a permanent storage memory and a processor, the sender/computer and the receiver/computer communicating through the network; the sender/computer further including device for calculating digital digests on data; the receiver/computer further including a network cache memory and device for calculating digital digests on data in the network cache memory; and the receiver/computer and/or the sender/computer including device for comparison between digital digests. The invention also provides a method and apparatus for increased data access in a packet-switched network.

**34 Claims, 9 Drawing Sheets**



**MICROSOFT**  
**EXHIBIT 1002**

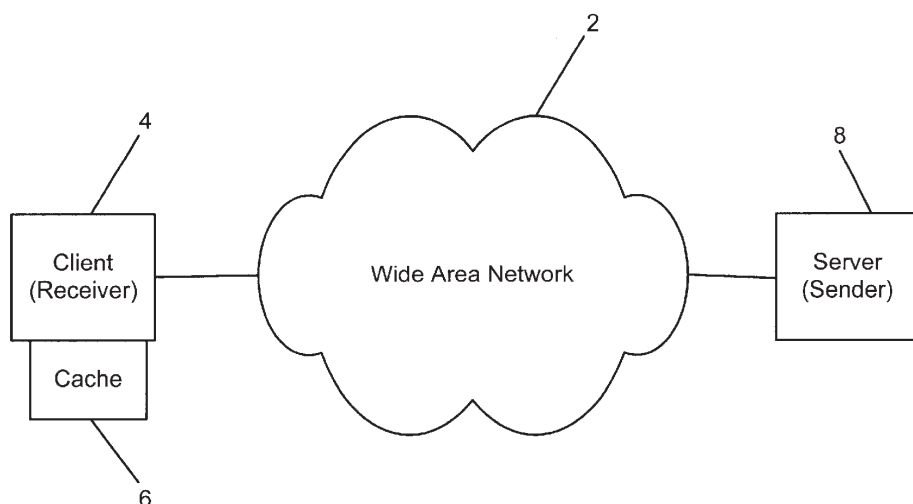


FIG. 1 (PRIOR ART)

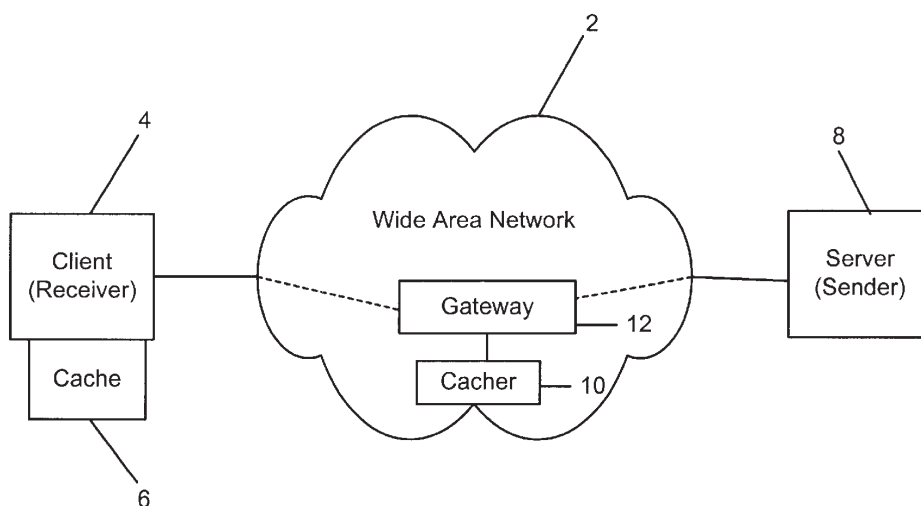


FIG. 2 (PRIOR ART)

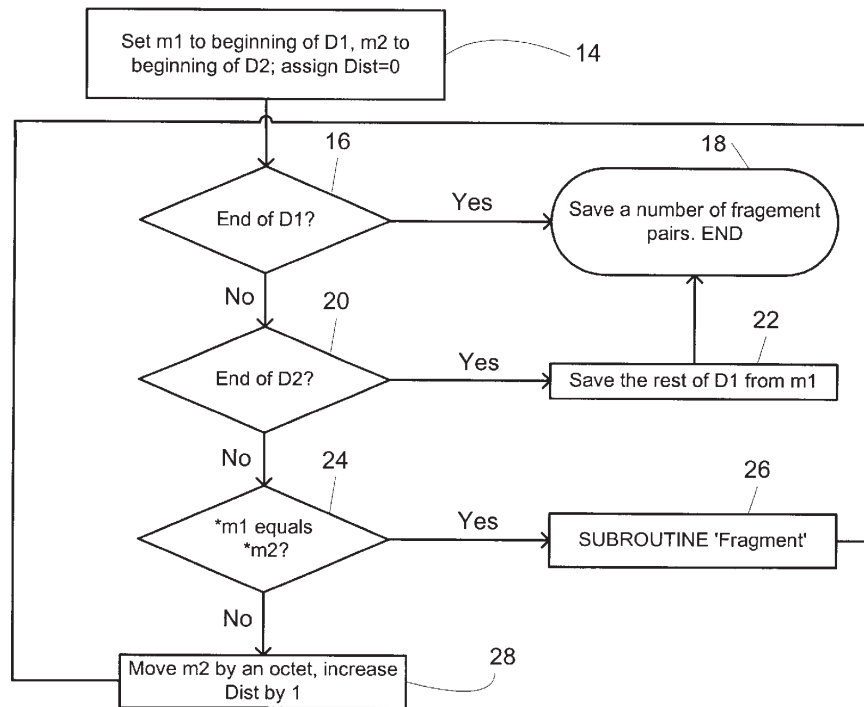
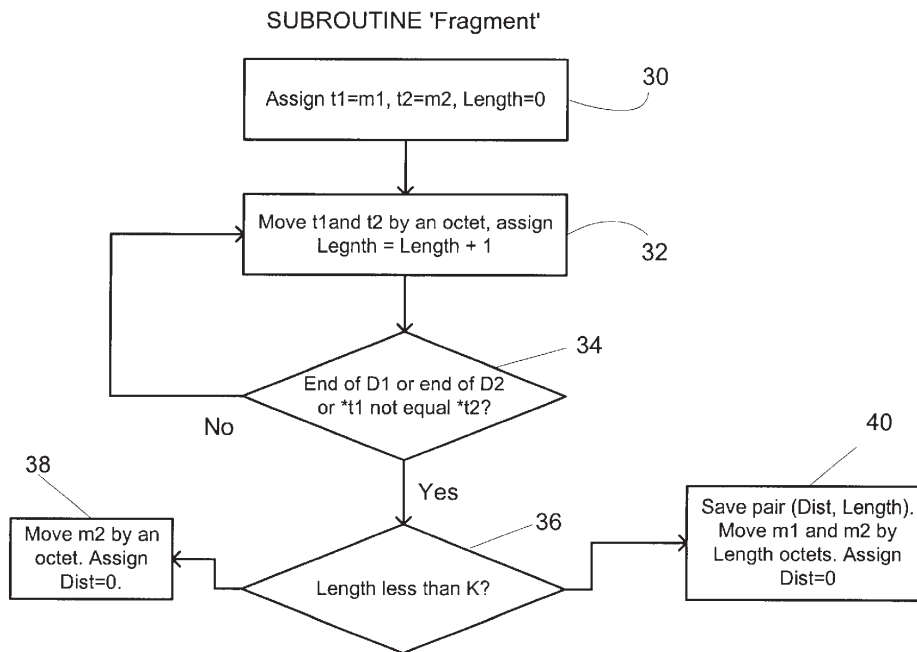


FIG. 3



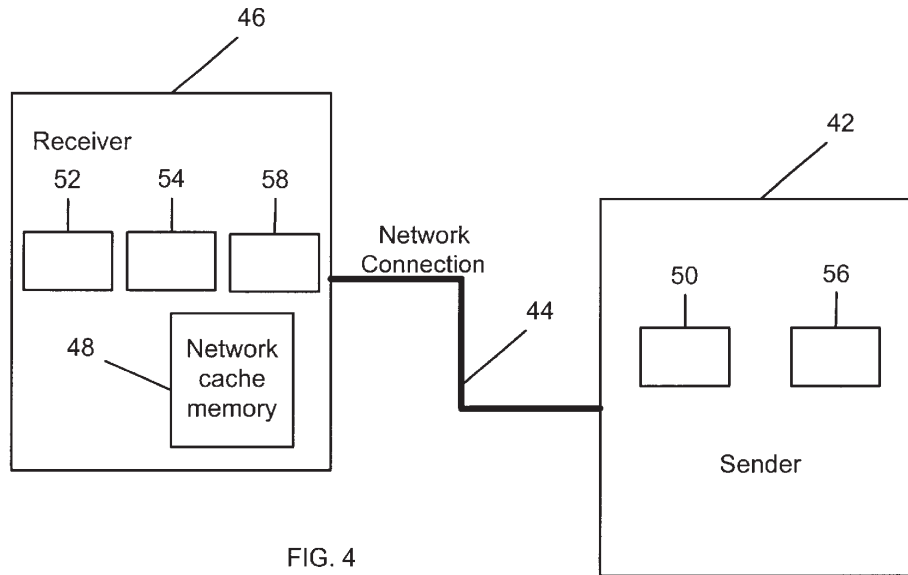


FIG. 4

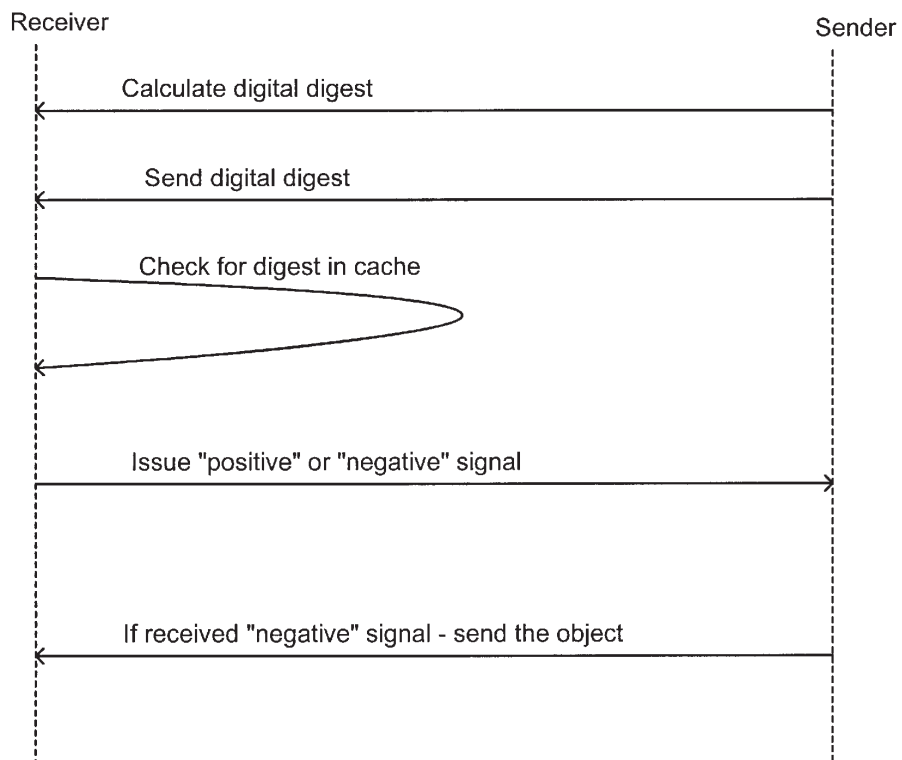
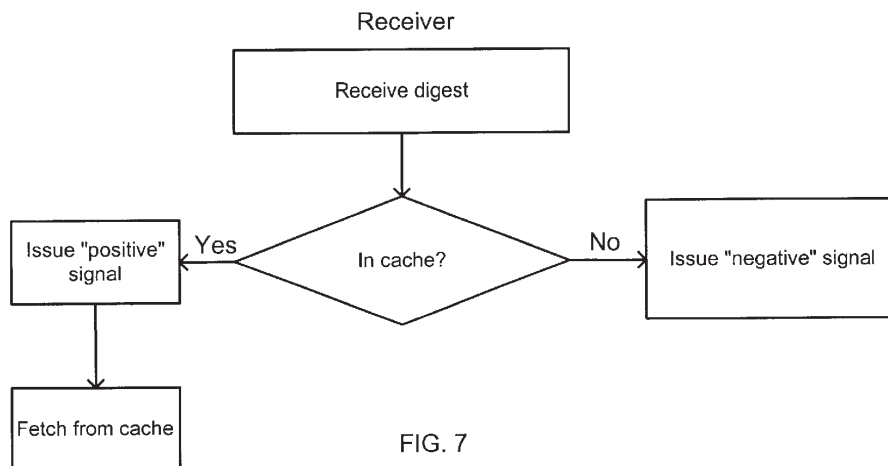
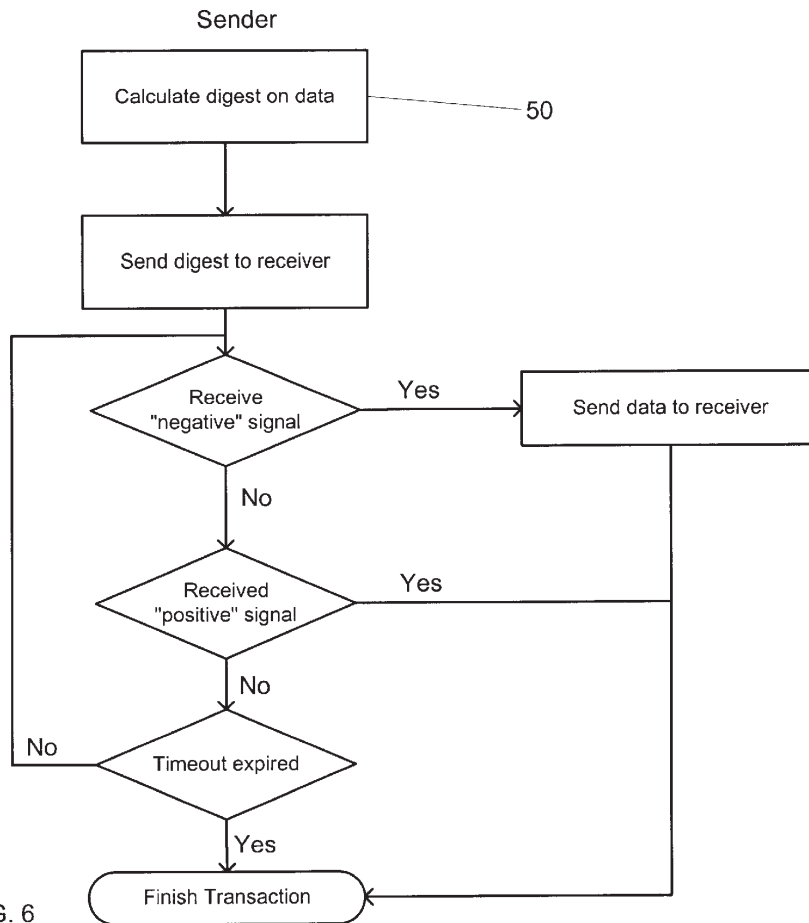


FIG. 5



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