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(12) **United States Patent**
Goldstein

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

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

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

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

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

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(51) **Int. Cl.**⁷ **G06F 15/16**

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

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

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Primary Examiner—Jack B. Harvey

Assistant Examiner—Hai V. Nguyen

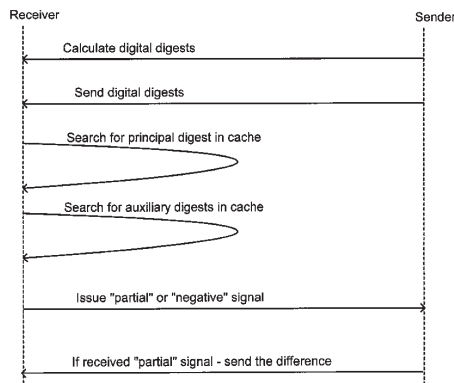
(74) *Attorney, Agent, or Firm*—J. D. Harriman, II, Esq.; Coudert Brothers LLP

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(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

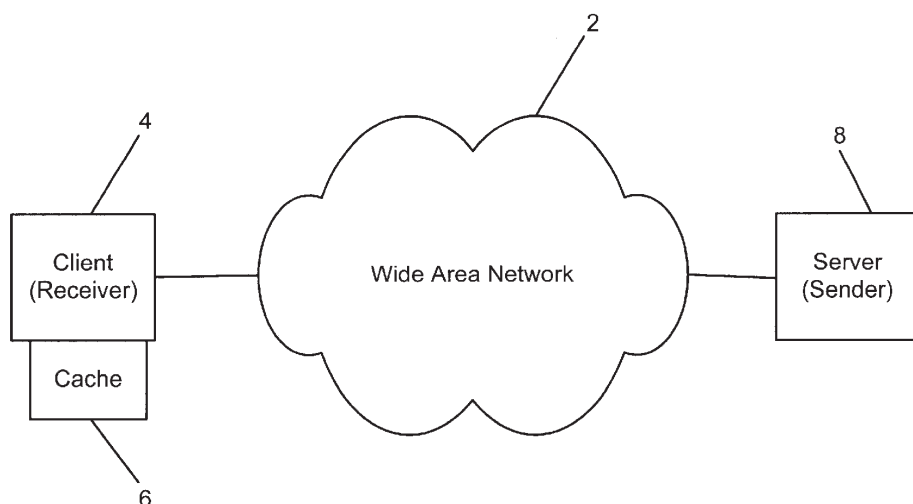


FIG. 1 (PRIOR ART)

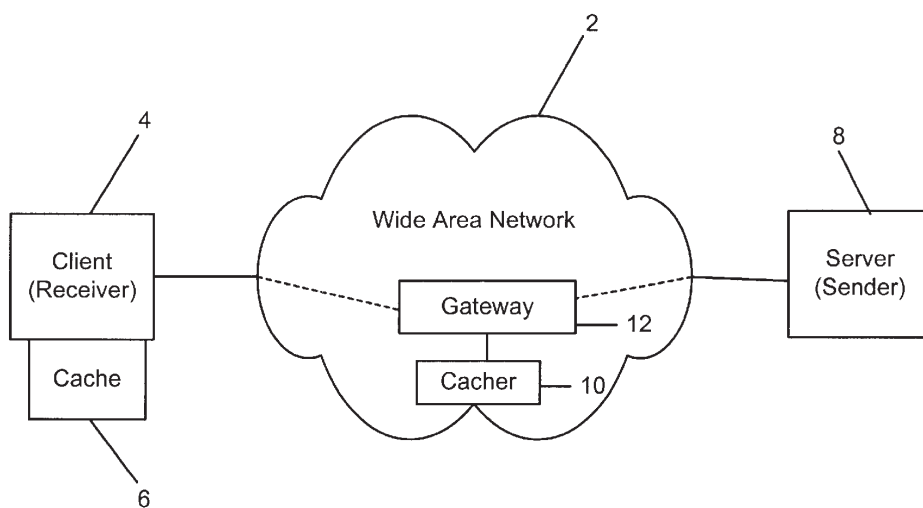


FIG. 2 (PRIOR ART)

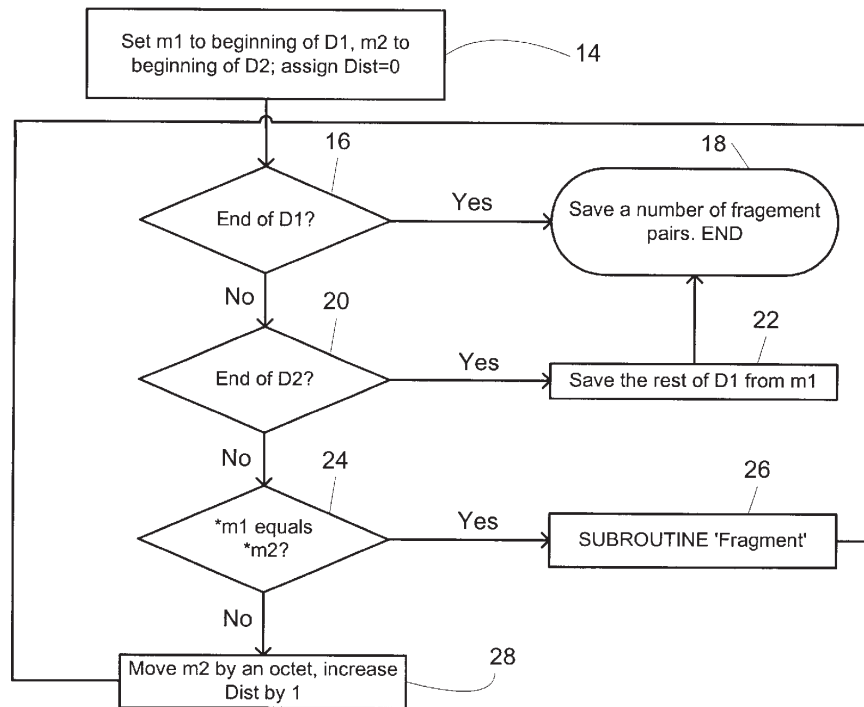
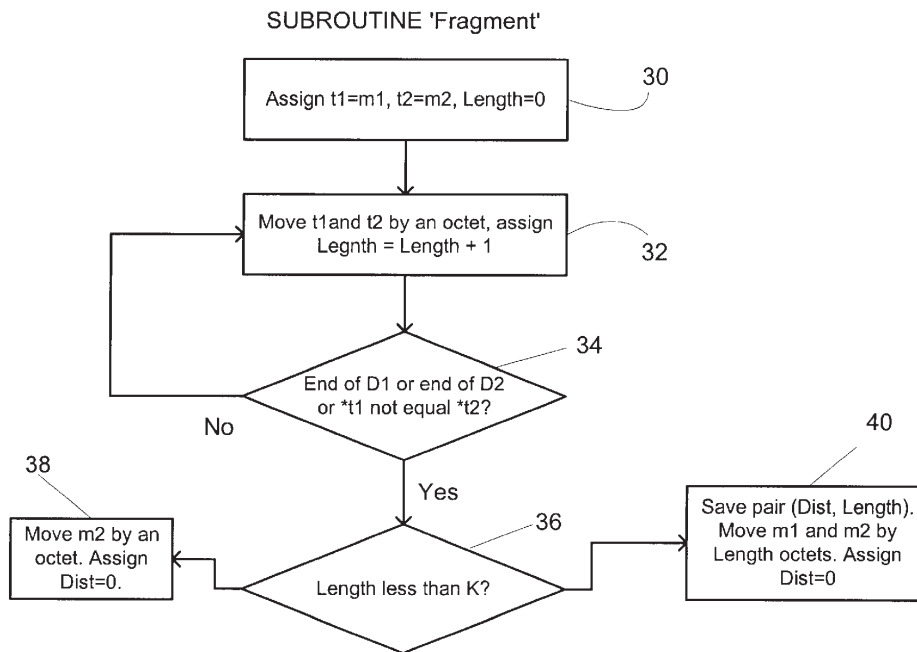
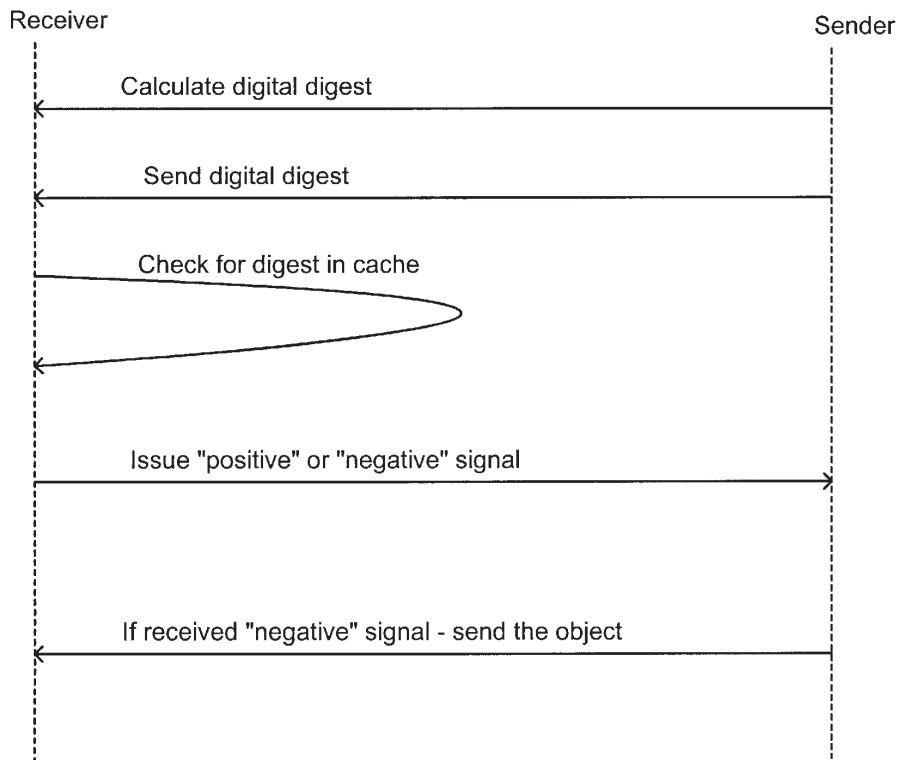
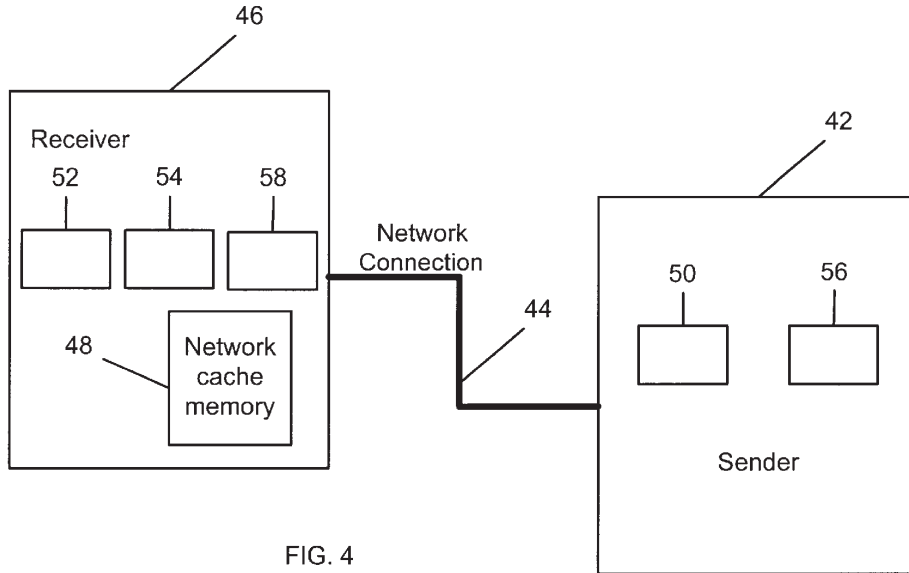
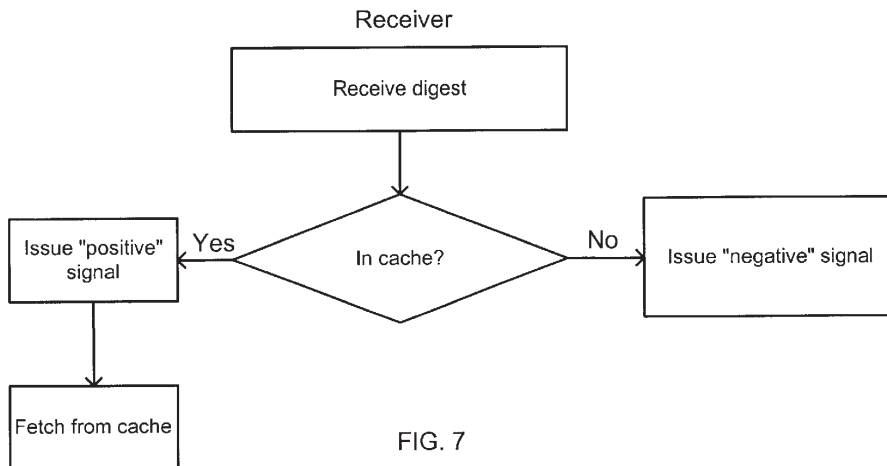
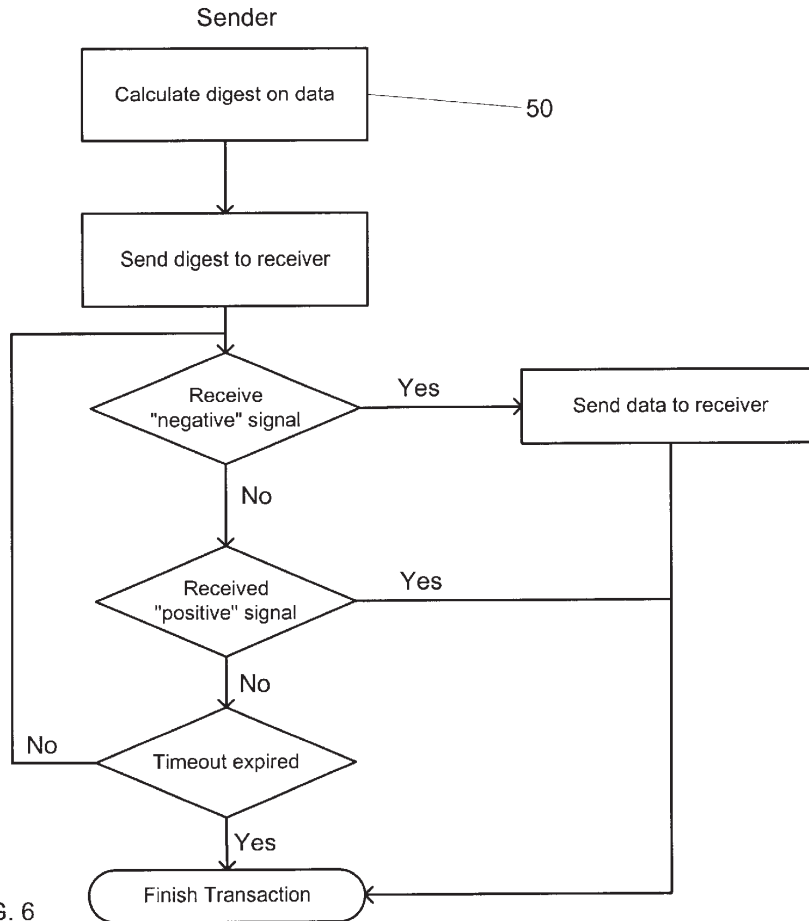


FIG. 3







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