



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

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(45) **Date of Patent:** **May 11, 2010**

- (54) **CONDITIONAL PROTOCOL CONTROL** 6,038,603 A 3/2000 Joseph
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- (75) Inventors: **Bradley B. Harvell**, Chandler, AZ (US); 6,591,304 B1 7/2003 Sitaraman et al.
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- (73) Assignee: **Limelight Networks, Inc.**, Tempe, AZ (US) 2005/0210121 A1* 9/2005 Taylor et al. 709/218

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

* cited by examiner

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(21) Appl. No.: **12/625,436**

(22) Filed: **Nov. 24, 2009**

(57) **ABSTRACT**

Related U.S. Application Data

(63) Continuation of application No. 12/572,981, filed on Oct. 2, 2009, which is a continuation-in-part of application No. PCT/US2009/038361, filed on Mar. 26, 2009.

Foreign Application Priority Data

Mar. 26, 2009 (AU) 2009201833

(51) **Int. Cl.**
H04J 1/16 (2006.01)
H04L 12/56 (2006.01)

(52) **U.S. Cl.** **370/252**; 370/389; 370/412; 370/466

(58) **Field of Classification Search** 370/252, 370/412, 389, 466
See application file for complete search history.

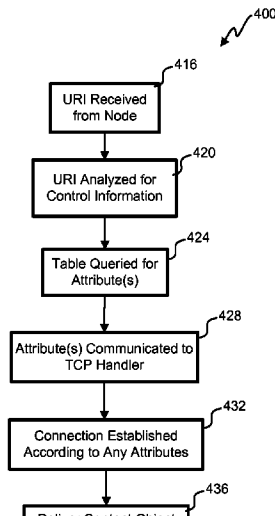
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In one embodiment, a system for adapting the interoperation of nodes in an information processing system is disclosed. The system includes a protocol handler, a protocol attribute information store and a protocol attribute selector. The protocol handler manages a first connection and a second connection over the network using a protocol. The protocol attribute information store holds a plurality of attributes. The protocol attribute selector evaluates first information related to a first connection, utilizes the protocol attribute information store to determine first protocol attributes corresponding to the first connection, and communicates the first attributes for the first connection to the protocol handler. Additionally, the protocol attribute selector evaluates second information related to a second connection, utilizes the protocol attribute information store to determine second attributes corresponding to the second connection, and communicates the second attributes for the second connection to the protocol handler. The protocol handler uses first attributes for the first connection and second attributes for the second connection.

11 Claims, 14 Drawing Sheets



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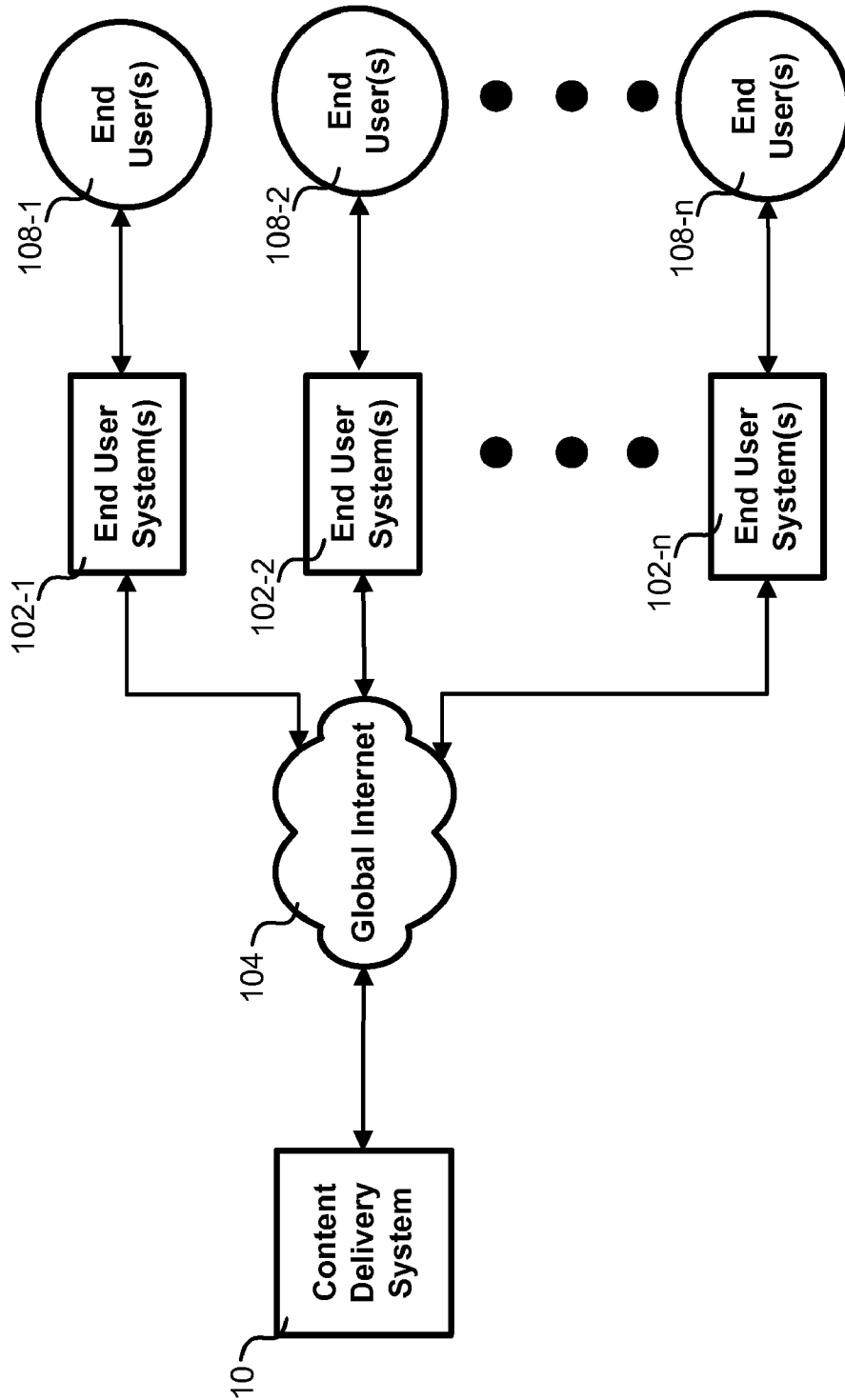


FIG. 1

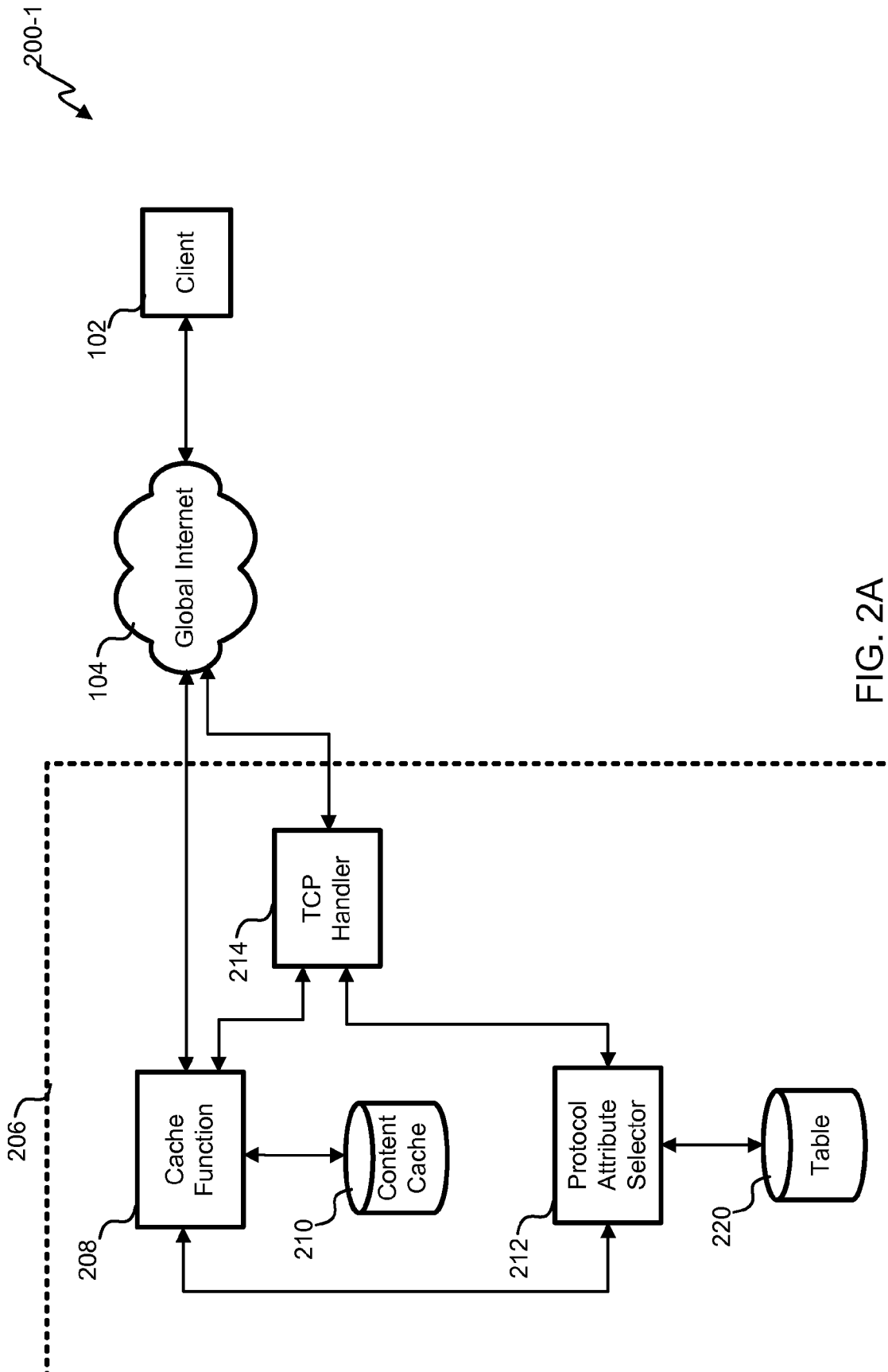


FIG. 2A

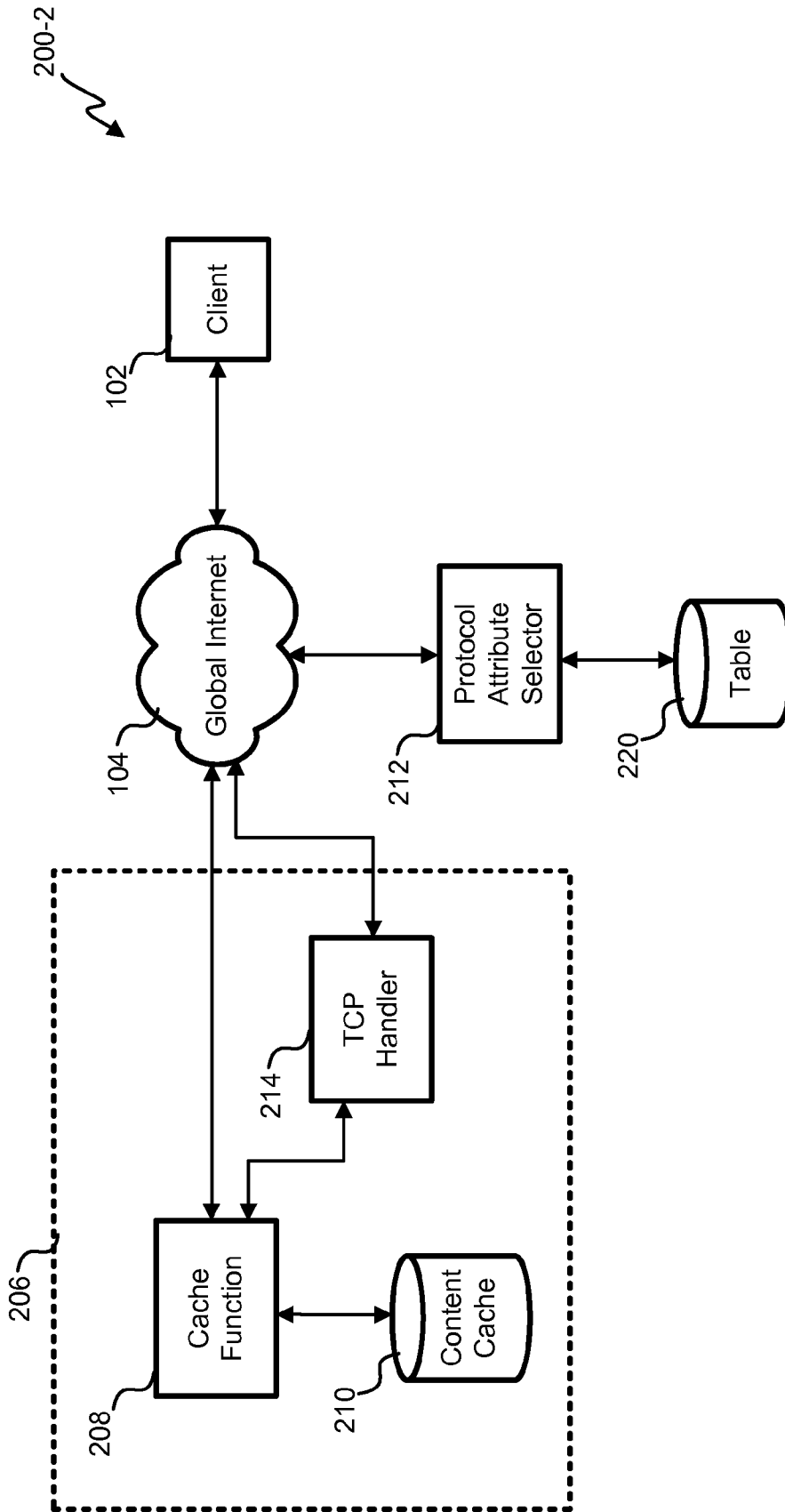


FIG. 2B

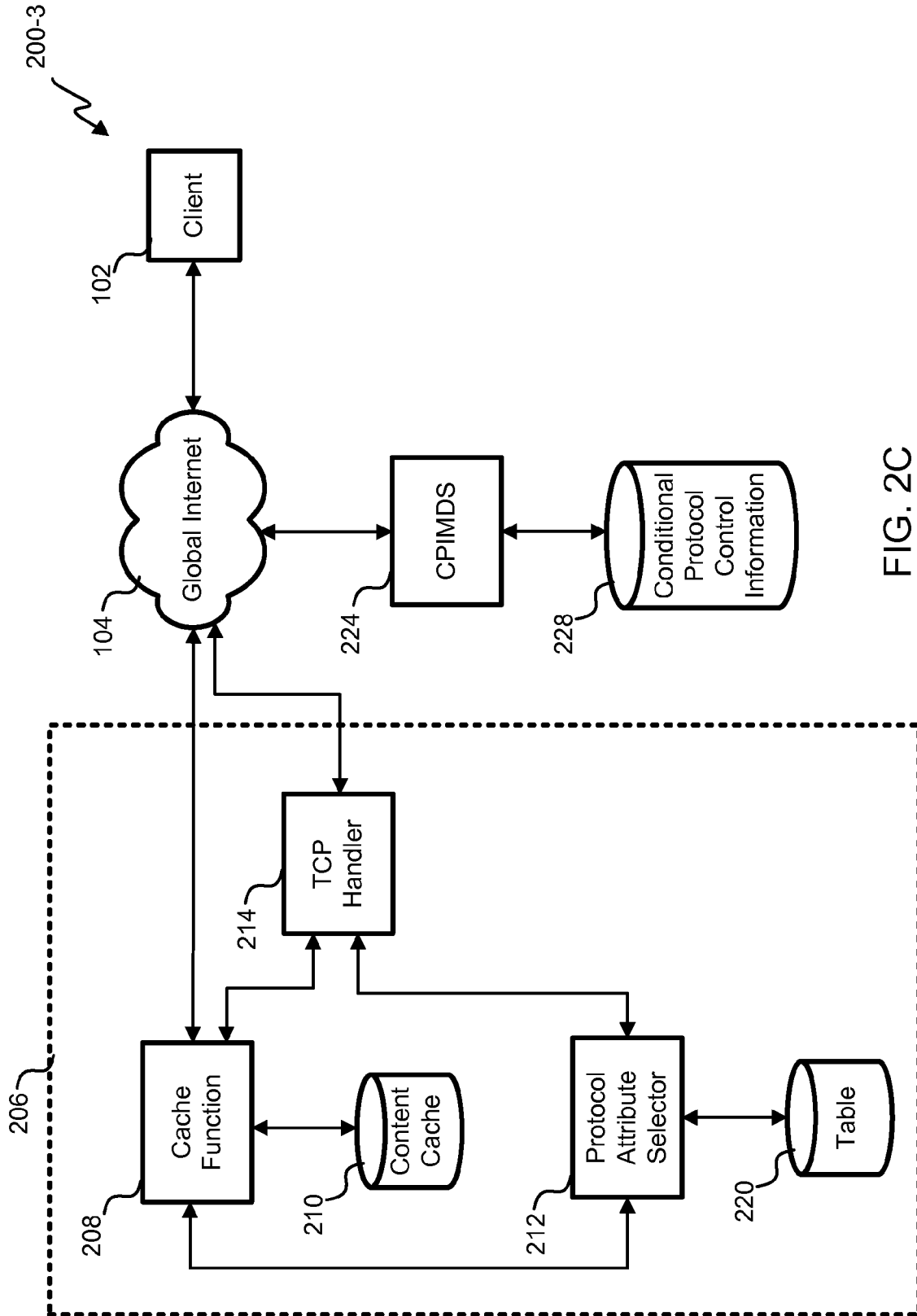


FIG. 2C

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