



US008560604B2

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

(10) **Patent No.:** **US 8,560,604 B2**
(45) **Date of Patent:** **Oct. 15, 2013**

(54) **SYSTEM AND METHOD FOR PROVIDING
FASTER AND MORE EFFICIENT DATA
COMMUNICATION**

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Vilenski**, Netanya (IL)

(73) Assignee: **Hola Networks Ltd.**, Netanya (IL)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 451 days.

(21) Appl. No.: **12/836,059**

(22) Filed: **Jul. 14, 2010**

(65) **Prior Publication Data**

US 2011/0087733 A1 Apr. 14, 2011

Related U.S. Application Data

(60) Provisional application No. 61/249,624, filed on Oct.
8, 2009.

(51) **Int. Cl.**
G06F 15/16 (2006.01)

(52) **U.S. Cl.**
USPC **709/204**; 709/203; 709/228

(58) **Field of Classification Search**
USPC 709/203-204, 217-219, 223, 236
See application file for complete search history.

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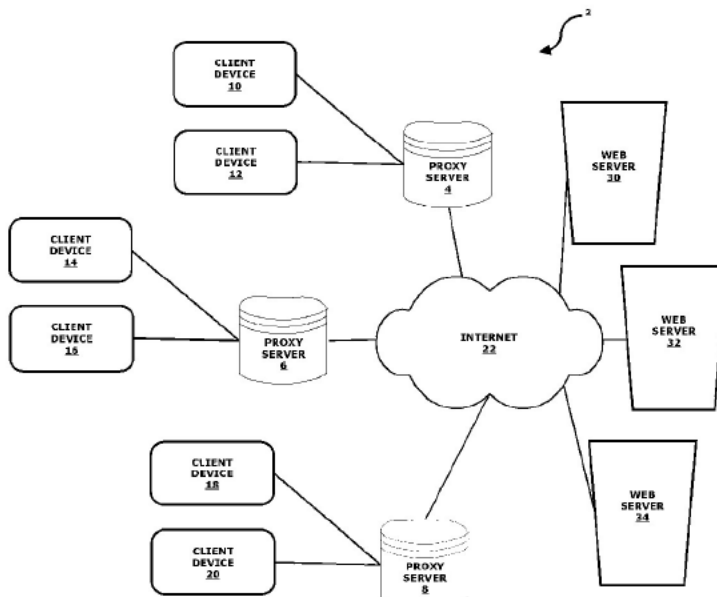
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(57) **ABSTRACT**

A system designed for increasing network communication speed for users, while lowering network congestion for content owners and ISPs. The system employs network elements including an acceleration server, clients, agents, and peers, where communication requests generated by applications are intercepted by the client on the same machine. The IP address of the server in the communication request is transmitted to the acceleration server, which provides a list of agents to use for this IP address. The communication request is sent to the agents. One or more of the agents respond with a list of peers that have previously seen some or all of the content which is the response to this request (after checking whether this data is still valid). The client then downloads the data from these peers in parts and in parallel, thereby speeding up the Web transfer, releasing congestion from the Web by fetching the information from multiple sources, and relieving traffic from Web servers by offloading the data transfers from them to nearby peers.

20 Claims, 15 Drawing Sheets



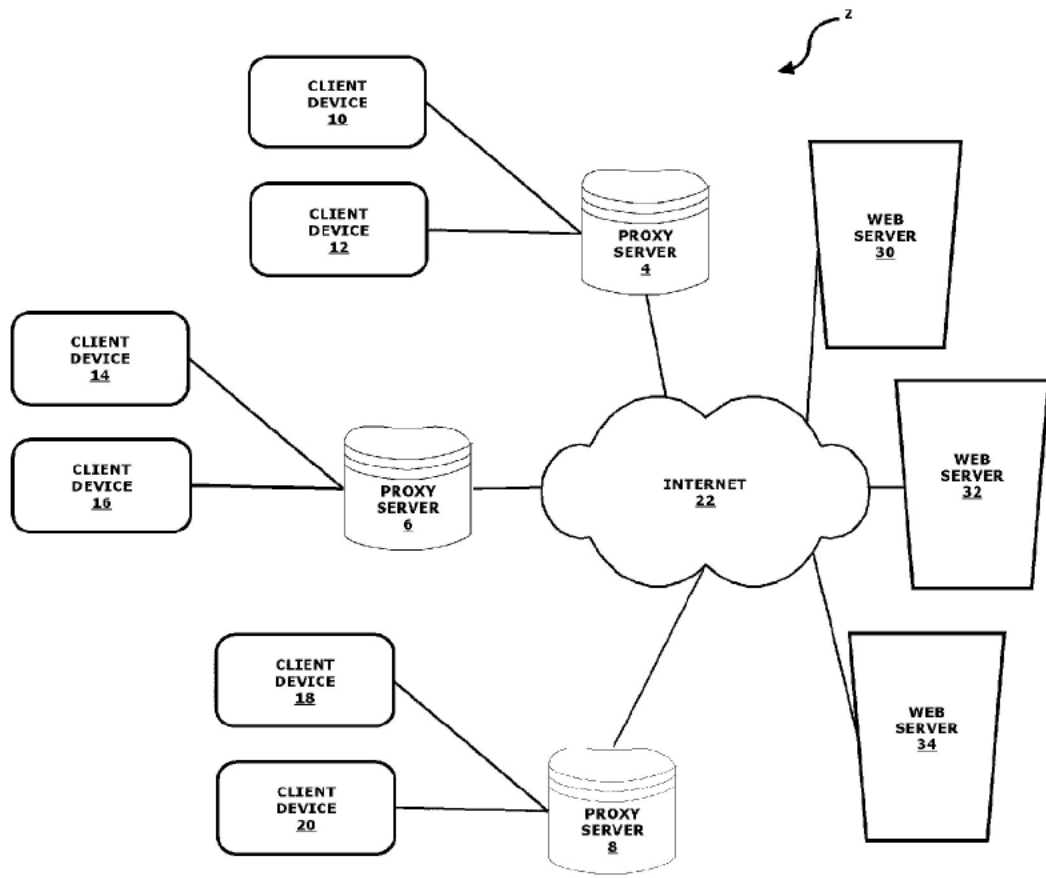


FIG. 1

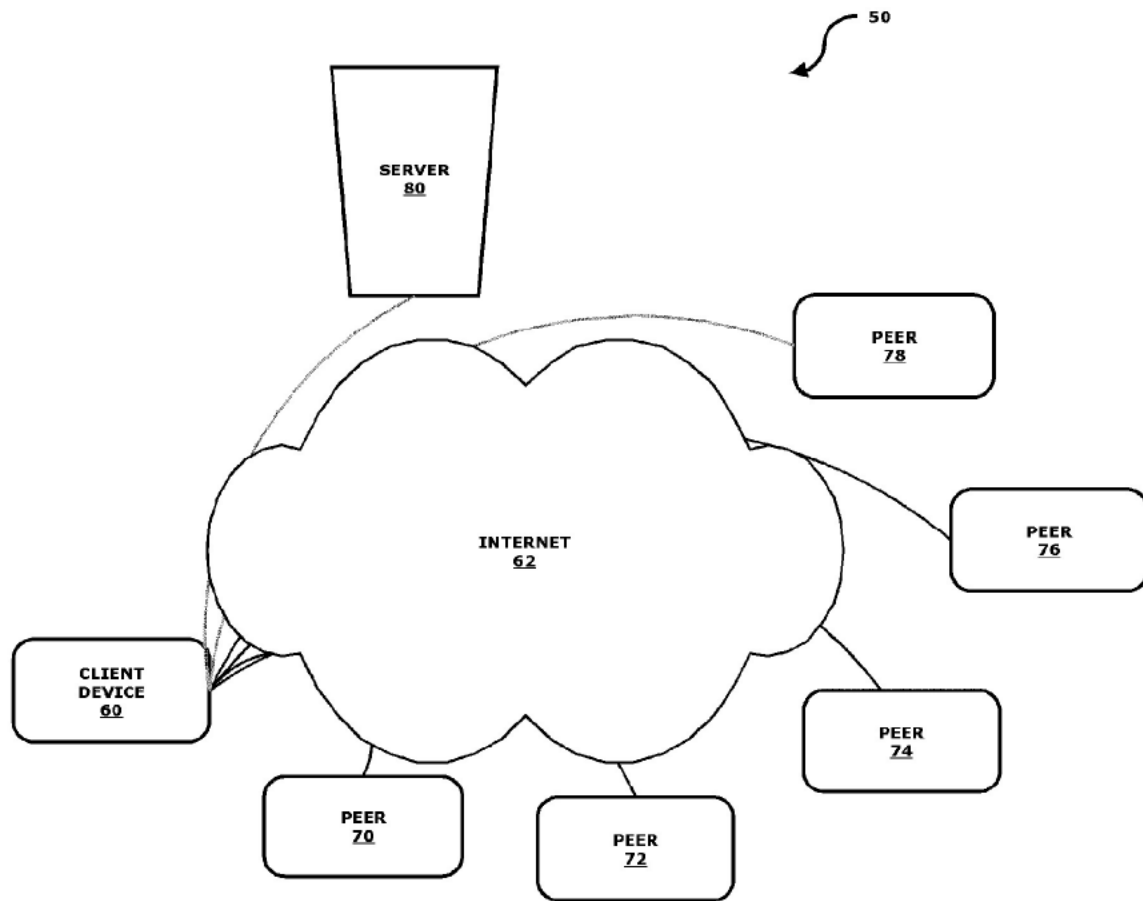


FIG. 2

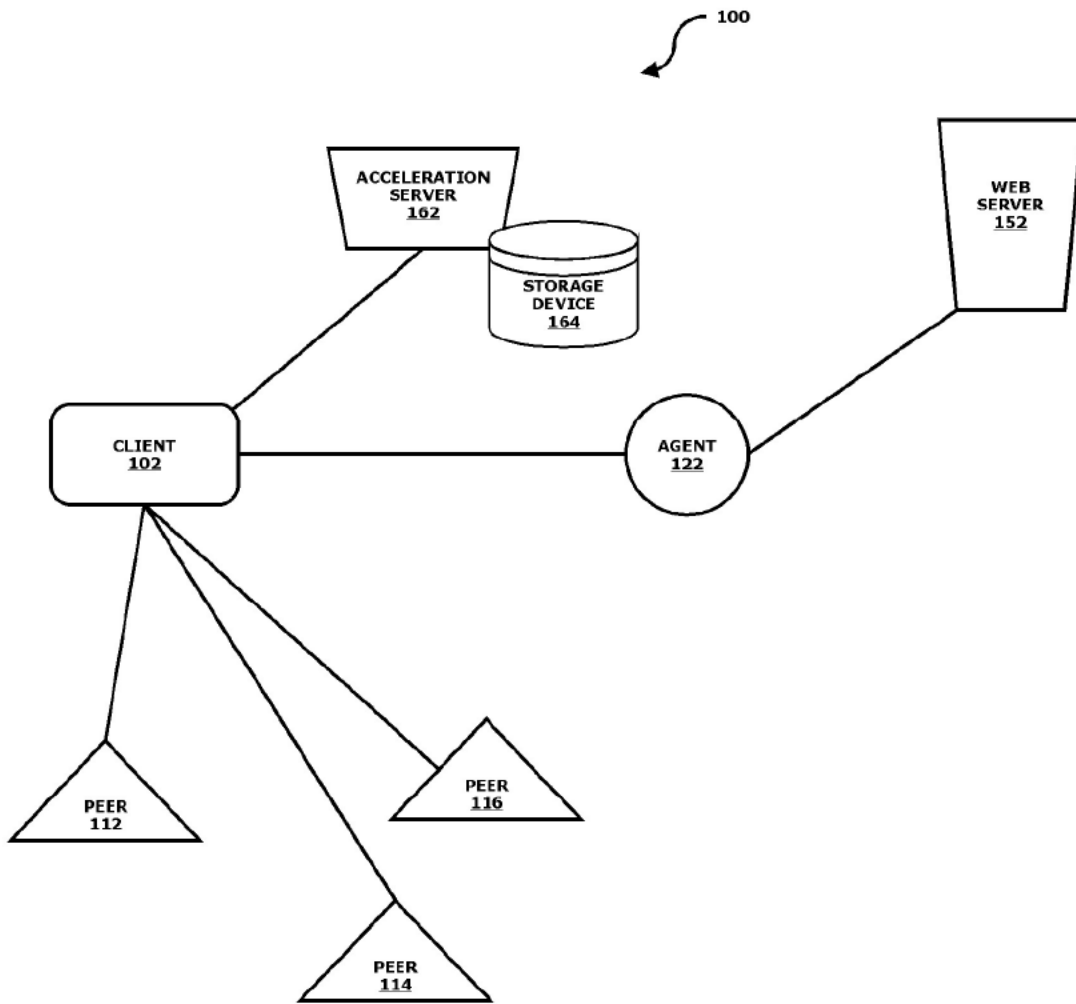


FIG. 3

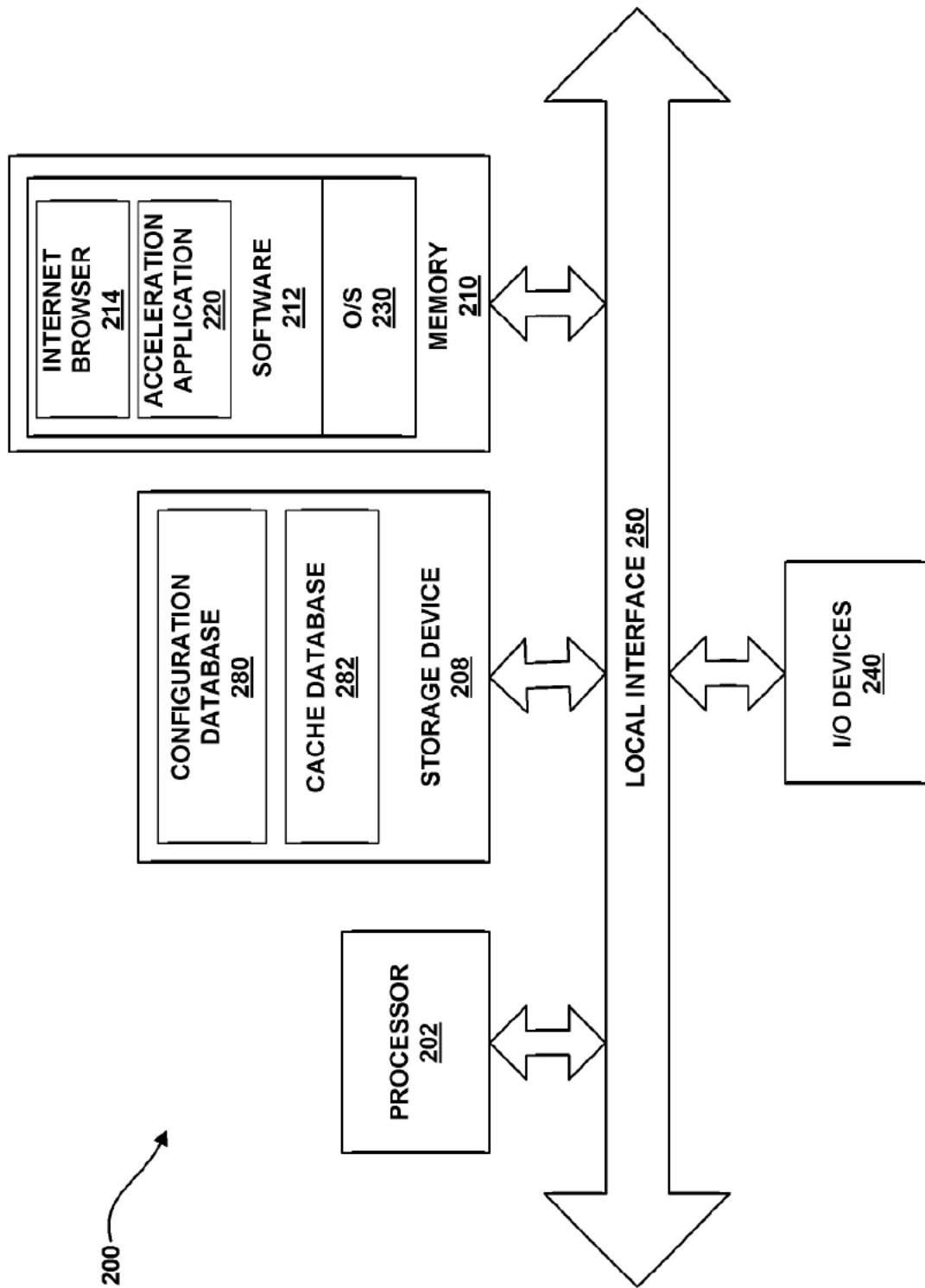


FIG. 4

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