(19) **United States**

(12) **Patent Application Publication** (10) Pub. No.: **US 2002/0059371 A1**
Jamail et al. (43) **Pub. Date:** **May 16, 2002**

(54) **CACHING PROXY STREAMING APPLIANCE SYSTEMS AND METHODS**

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Publication Classification

(51) **Int. Cl.**[7] **G06F 15/16**; G06F 15/167
(52) **U.S. Cl.** **709/203**; 709/213

(57) **ABSTRACT**

A client machine connects directly to a proxy server without the knowledge or without a programmed expectation that the proxy server will connect to another server at all. The client machine sends a request directly to the proxy server, expecting that the content requested by the client machine resides on the proxy server. The proxy server, if it does not contain the requested content, obtains the requested content from a second server without the client machine ever knowing that the content did not originally reside on the proxy server, and was instead obtained from the second server.
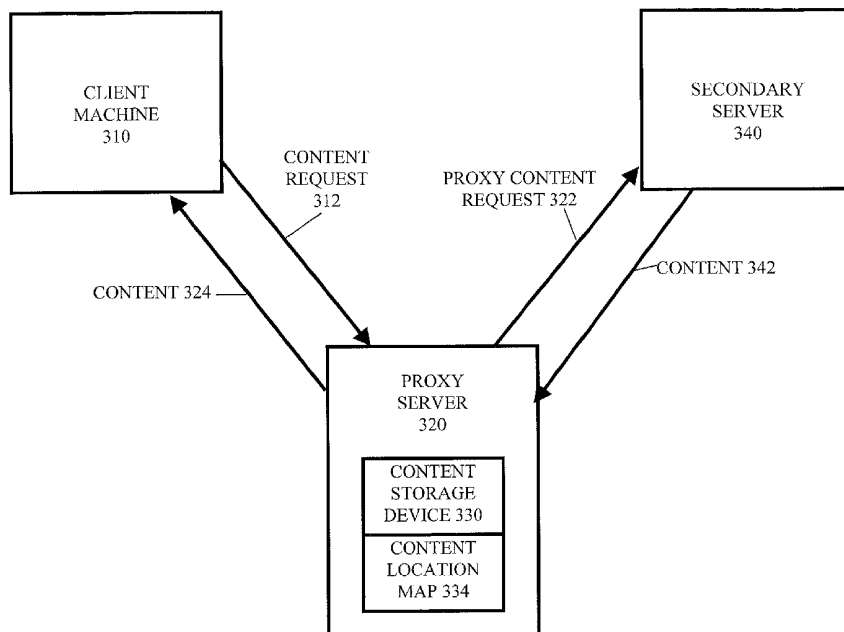
300

SECONDARY
SERVER

CONTENT

PROXY CONTENT
REQUEST

SECONDARY
SERVER
ADDRESS &
CONTENT
REQUEST

PROXY
SERVER

PRIOR ART

CLIENT
MACHINE

CONTENT

FIG. 1

SECONDARY SERVER

NETWORK HARDWARE

CLIENT MACHINE

PROXY SERVER

APPARENT CONTENT REQUEST TO SECONDARY SERVER

ACTUAL CONTENT REQUEST TO SECONDARY SERVER

CONTENT

REDIRECTED CONTENT REQUEST TO SECONDARY SERVER

CONTENT REQUEST TO SECONDARY SERVER

APPARENT CONTENT

CONTENT

PRIOR ART

FIG. 2

100

SECONDARY
SERVER
140

CONTENT 142

PROXY CONTENT
REQUEST 122

CLIENT
MACHINE
110

CONTENT
REQUEST
112

CONTENT 124

PROXY
SERVER
120

CONTENT
STORAGE
DEVICE 130

FIG. 3

200

SECONDARY
SERVER
240

CONTENT 242

PROXY CONTENT
REQUEST 222

CLIENT
MACHINE
210

CONTENT
REQUEST
212

CONTENT 224

PROXY
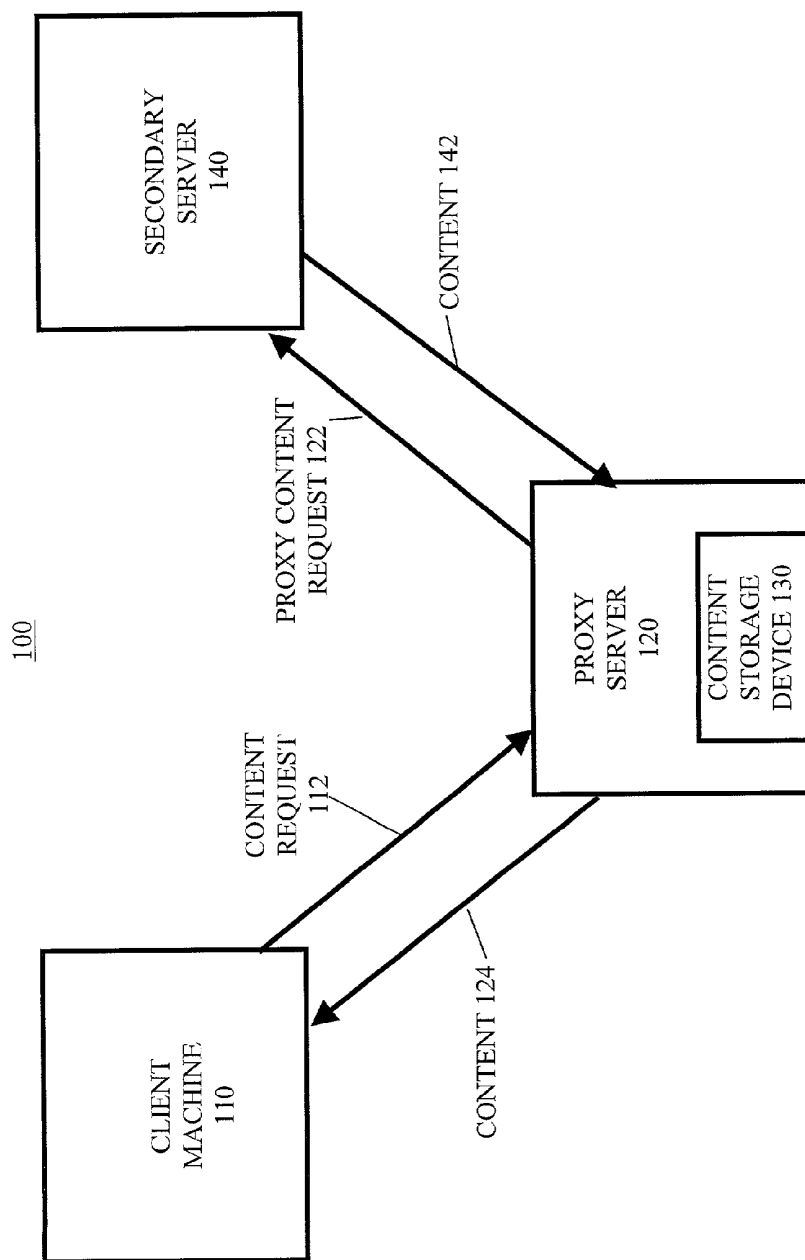SERVER
220

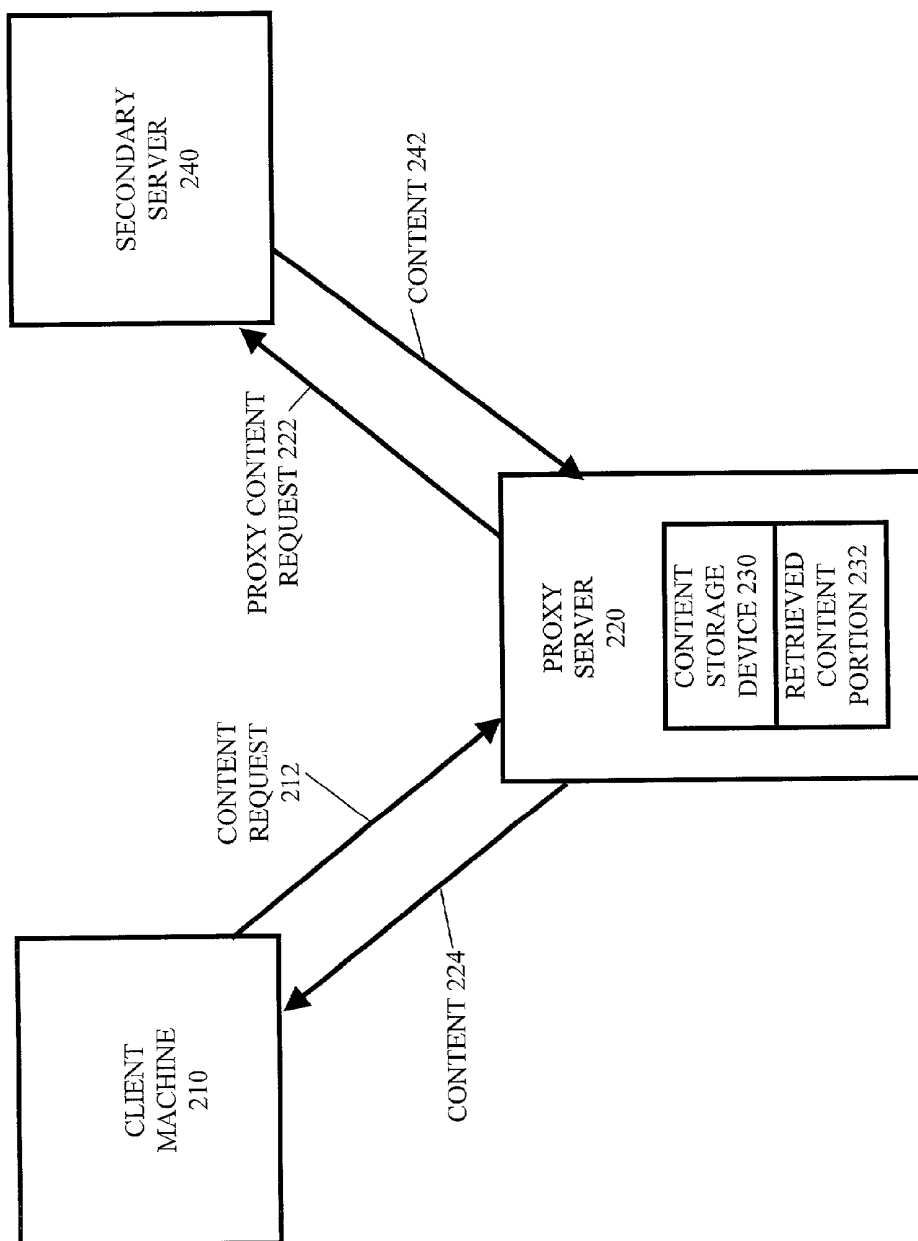CONTENT
STORAGE
DEVICE 230

RETRIEVED
CONTENT
PORTION 232
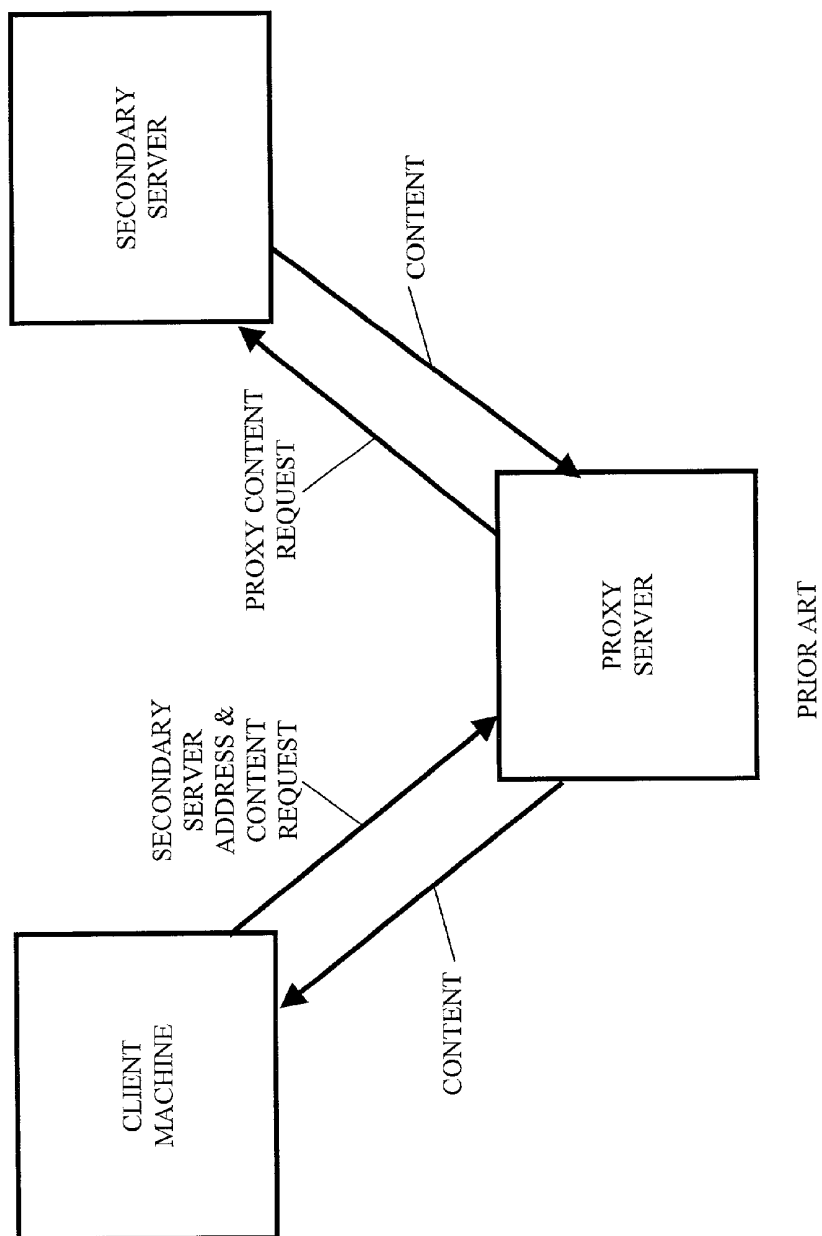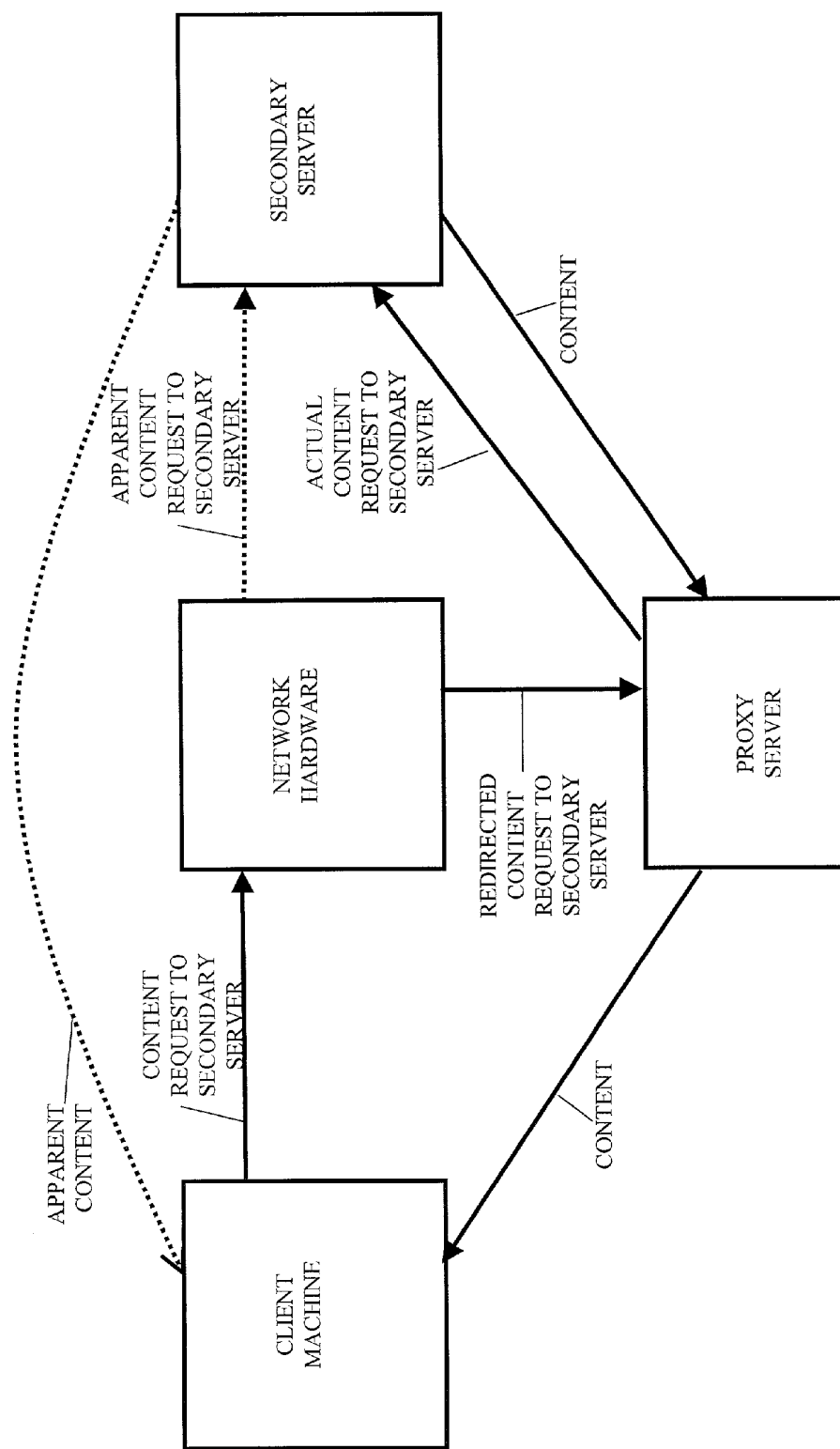
FIG. 4

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