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Border et al.

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(54) **SYSTEM AND METHOD OF READING
AHEAD OF OBJECTS FOR DELIVERY TO
AN HTTP PROXY SERVER**

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(51) **Int. Cl.**⁷ **G06F 15/167**

(52) **U.S. Cl.** **709/213; 709/203; 709/201**

(58) **Field of Search** **709/201-203,**
709/238, 225, 226, 229, 213; 711/117,
118, 122, 137

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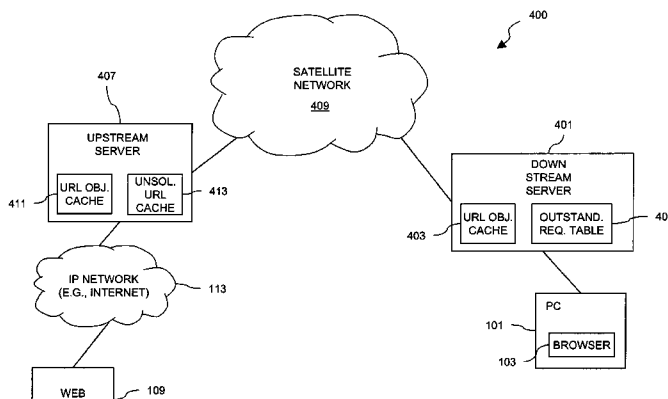
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(57) **ABSTRACT**

A communication system for retrieving web content is
disclosed. A downstream proxy server receives a URL
request message from a web browser, in which the URL
request message specifies a URL content that has an embed-
ded object. An upstream proxy server receives the URL
request message from the downstream proxy server. The
upstream proxy server selectively forwards the URL request
message to a web server and receives the URL content from
the web server, wherein the upstream proxy server forwards
the URL content to the downstream proxy server and parses
the URL content to obtain the embedded object prior to
receiving a corresponding embedded object request message
initiated by the web browser.

4 Claims, 7 Drawing Sheets



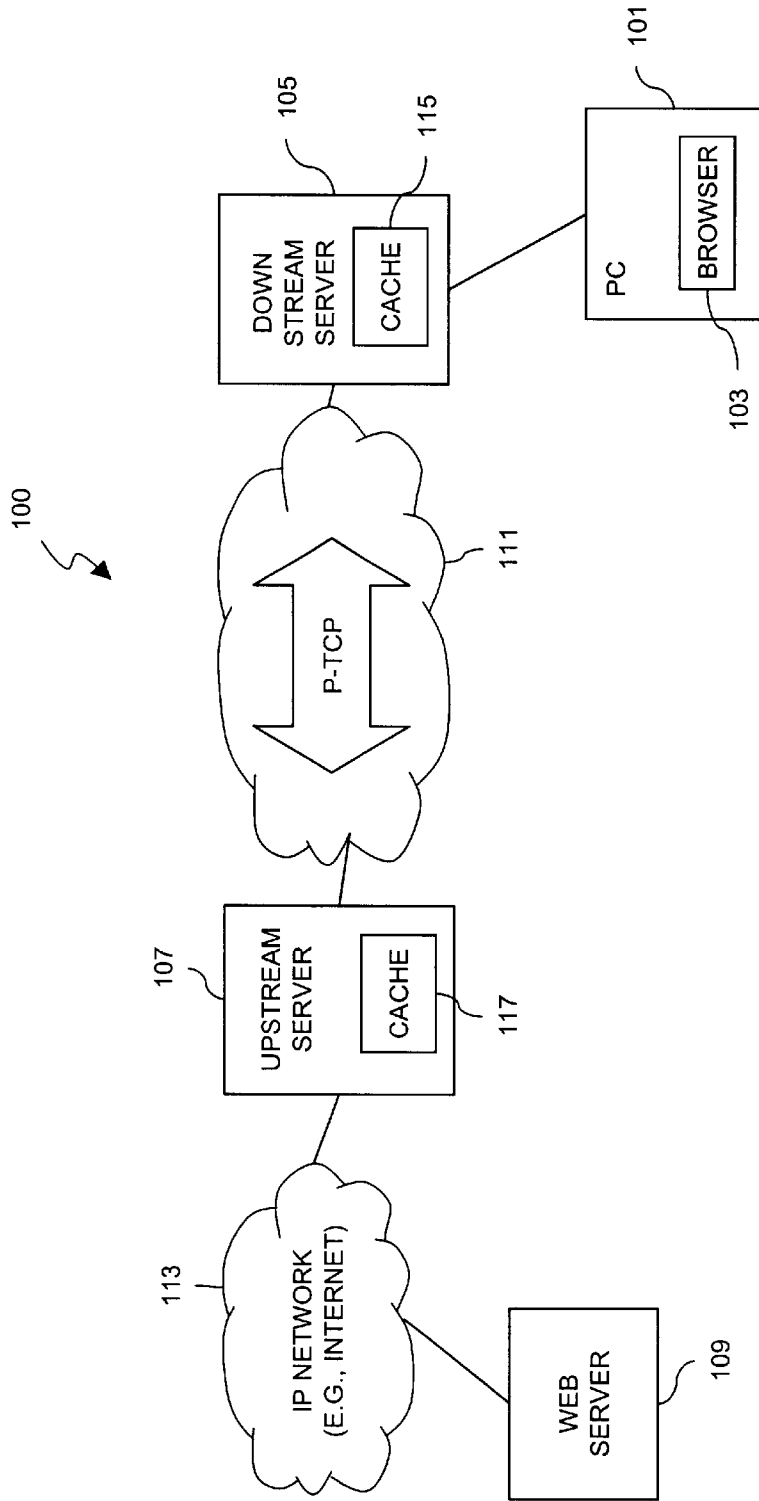


FIG. 1

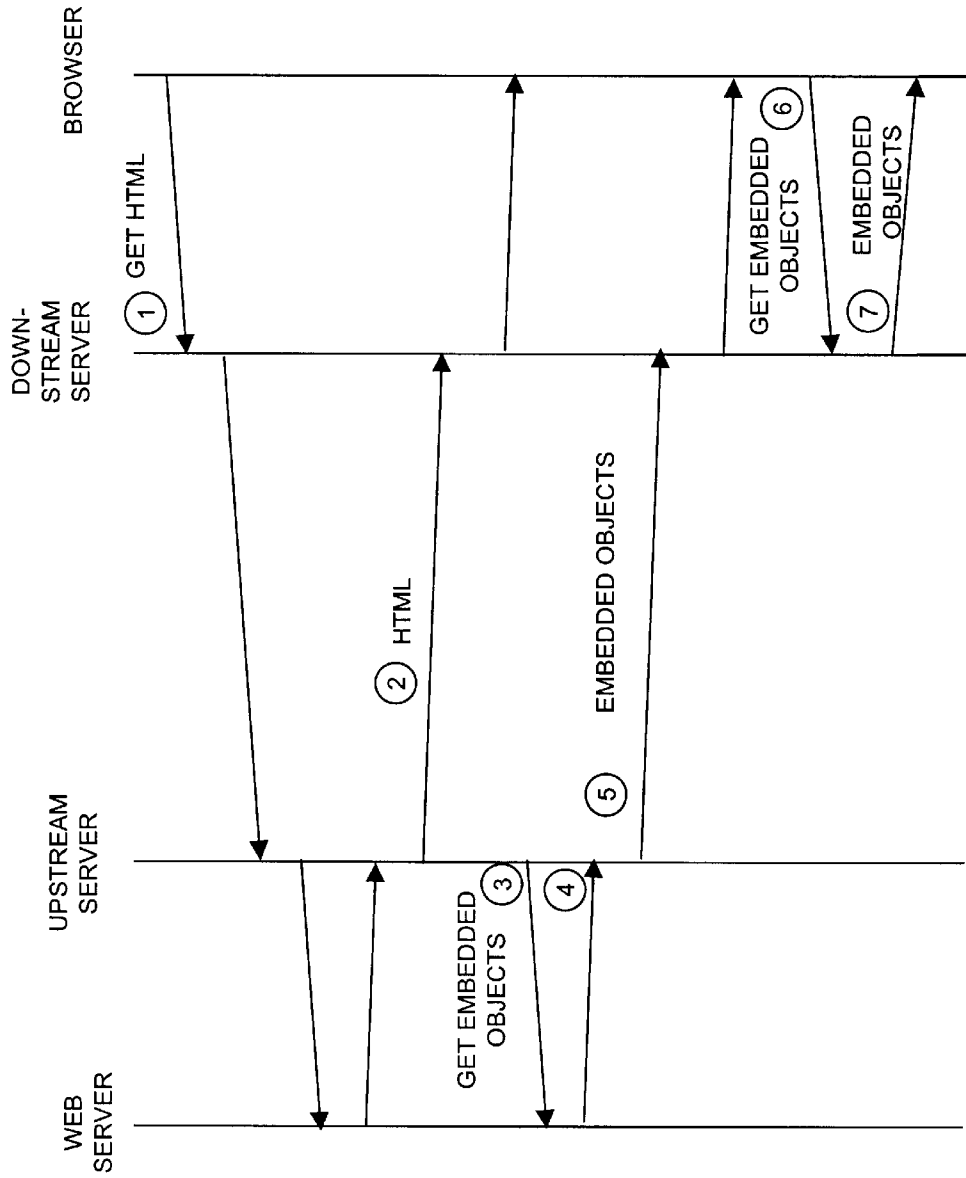
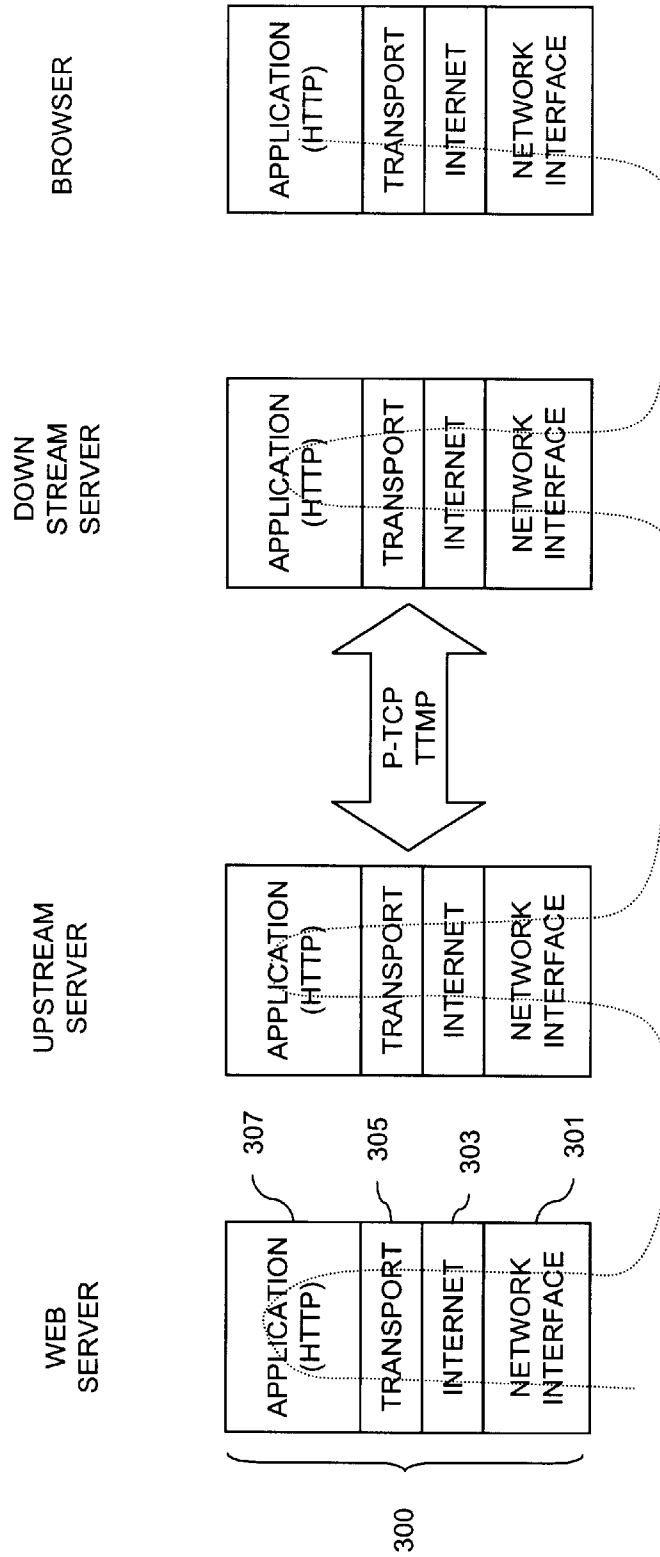


FIG. 2

FIG. 3



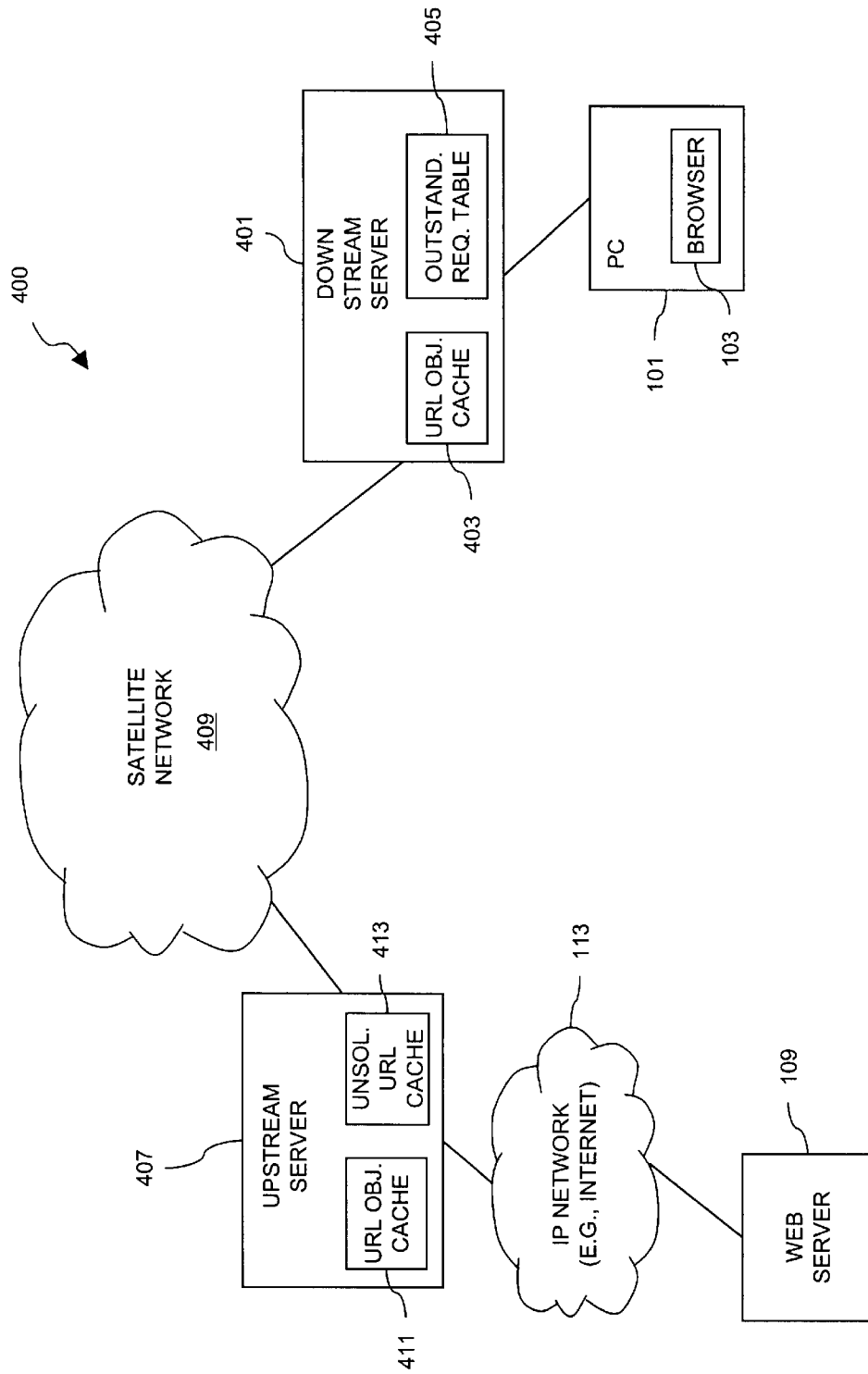


FIG. 4

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