



[54] **DYNAMIC PAGE GENERATOR**

[75] Inventors: **Farzad Nazem**, Redwood City;
Ashvinkumar P Patel, Milpitas, both
of Calif.

[73] Assignee: **Yahoo, Inc.**, Santa Clara, Calif.

[21] Appl. No.: **08/873,975**

[22] Filed: **Jun. 12, 1997**

[51] **Int. Cl.⁶** **G06F 17/30**

[52] **U.S. Cl.** **707/10; 707/104; 707/500;**
707/513; 707/517; 395/200.47; 705/1; 705/10

[58] **Field of Search** **707/10, 104, 200,**
707/500, 513, 517; 395/200.47, 200.48,
200.49; 705/1, 10

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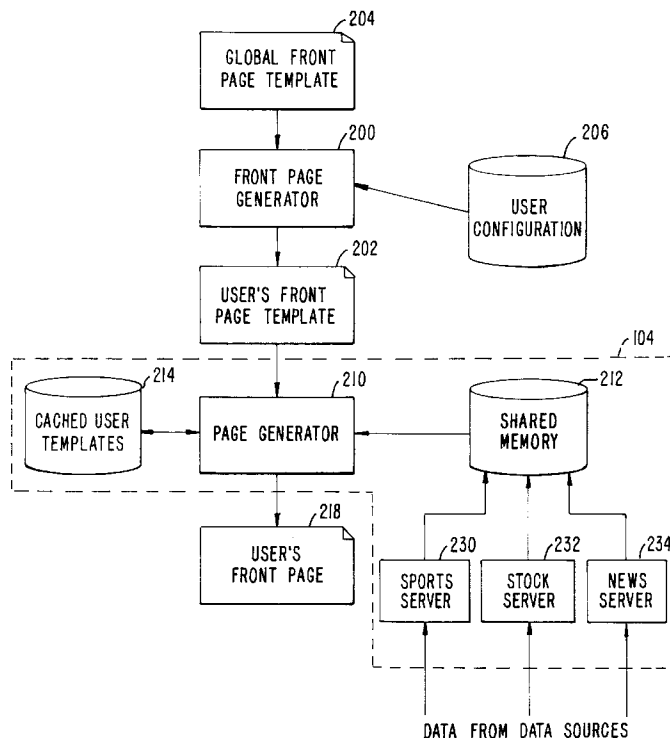
Primary Examiner—Paul R. Lintz

Attorney, Agent, or Firm—Philip H. Albert; Townsend and Townsend and Crew LLP

[57] **ABSTRACT**

An custom page server is provided with user preferences organized into templates stored in compact data structures and the live data used to fill the templates stored local to the page server which is handing user requests for custom pages. One process is executed on the page server for every request. The process is provided a user template for the user making the request, where the user template is either generated from user preferences or retrieved from a cache of recently used user templates. Each user process is provided access to a large region of shared memory which contains all of the live data needed to fill any user template. Typically, the pages served are news pages, giving the user a custom selection of stock quotes, news headlines, sports scores, weather, and the like. With the live data stored in a local, shared memory, any custom page can be built within the page server, eliminating the need to make requests from other servers for portions of the live data. While the shared memory might include RAM (random access memory) and disk storage, in many computer systems, it is faster to store all the live data in RAM.

9 Claims, 7 Drawing Sheets



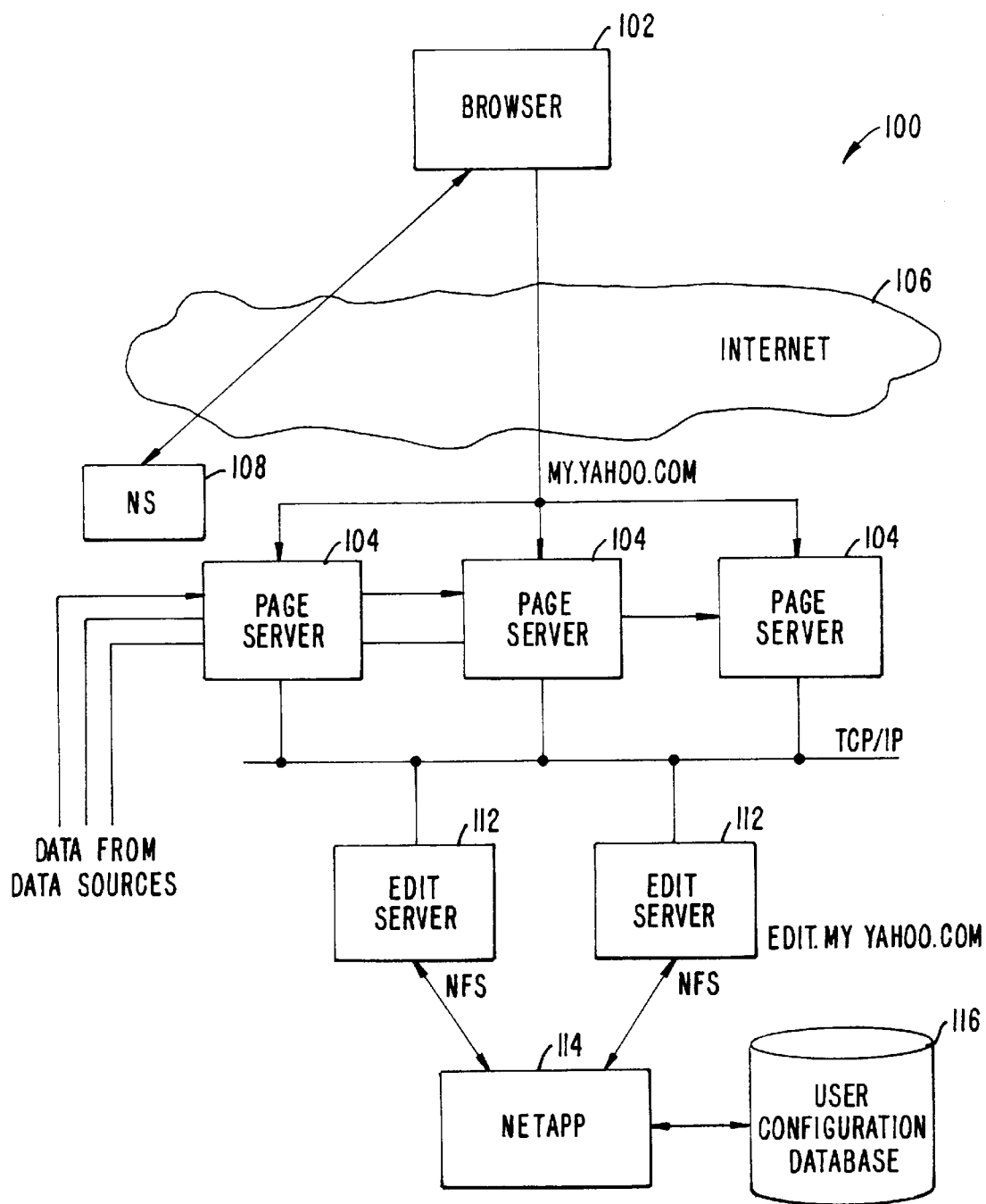


FIG. 1.

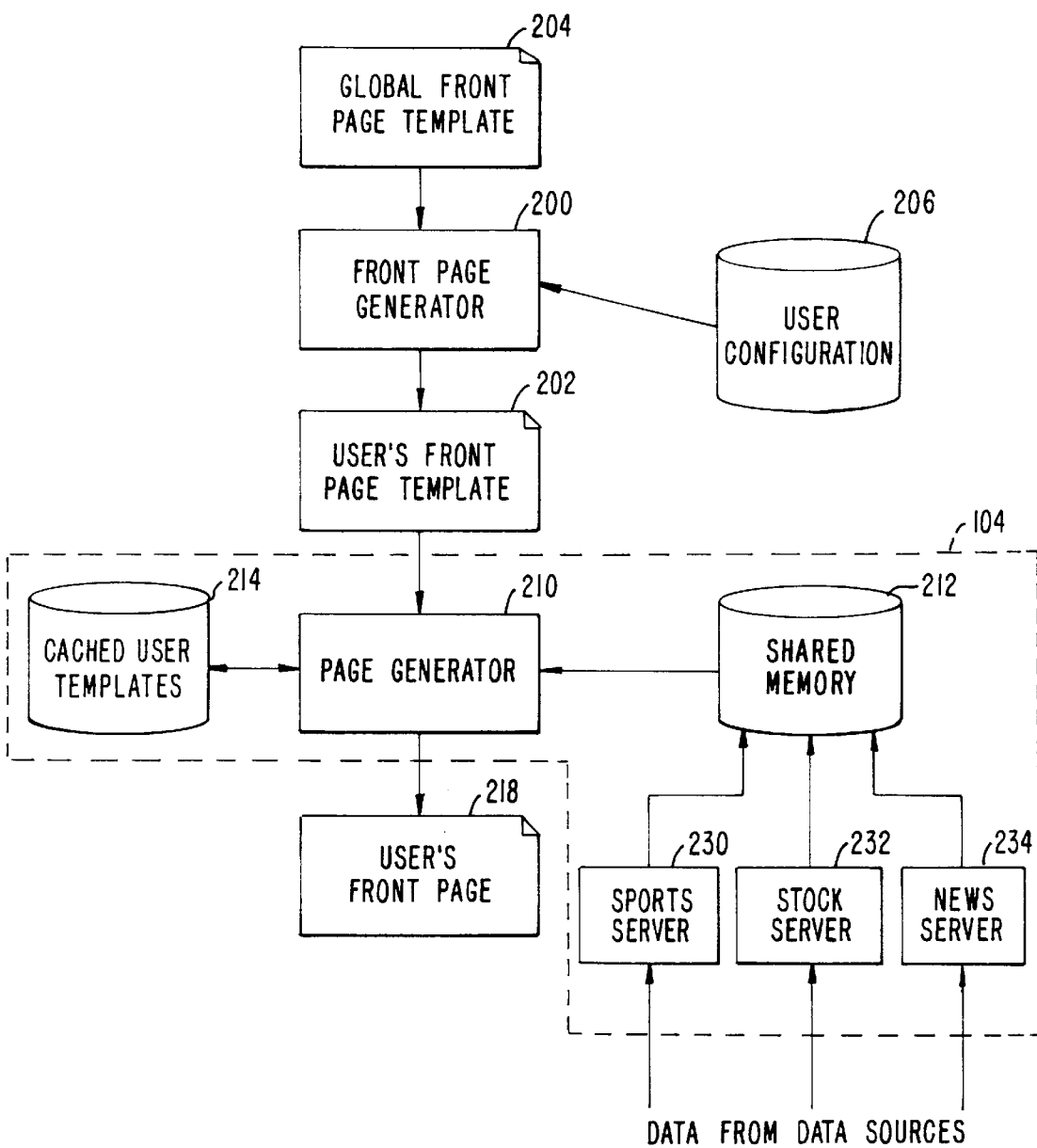


FIG. 2.

```
<html>
<head>
<title>My Yahoo! news summary for <!-- login --></title>
</head>
<body>

<center>
<!--banner:sum -->

<!-- ad -->
<!-- nav bar --> ~ 302
</center>

<table border=1 cellpadding=4 cellspacing=0 width=100%>
<tr><td align=center valign=top width="1%">
<!-- leftside:nsum --> ~ 302

<p></td>
<td align=center valign=top width="100%">
<!-- mode bar:"FRONT PAGE" -->
<!-- channel:nsum --> ~ 302

</td></tr>
</table>

<center>
<table border=1 cellpadding=2 cellspacing=0 width=100%>
<!-- motd:motn.html -->
</table>
</center>
<!-- search -->

<!-- copyright:sum -->

</body>
</html>
```

204

FIG. 3.

202 ↙

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<!-- timezone:-8,PT 0 -->
<!-- ad:M,85,95035,T,* 792 -->
<!-- portfolio:Quotes,pf_1,1,^DJI,^NYA,^IXIC,^SPX,^XAX,YHOO,NSCP,IOM,NSCP,YHOO
2836 -->
<!--
404 } scoreboard:NCAAFSSC,NHLSAN,MLSSAN,NCAAFSSS,ALOAK,NBAGSW,NFLOAK,NCAAFCCD,NFI,SFO
,NLSFO 3803 -->
<!-- weather:f,30901,uk_londo,94601,95101 4368 -->
<!--
mode_bar:"FRONT_PAGE",.hier=News+Summary%3aEdit&.done=http://my.yahoo.com/news
/summary2:3,rt,rw,z0000,mlb,re,vf 4597 -->
<!-- motd:us_motn.html 4696 -->
<html>
<head>
<title>My Yahoo! news summary for ash802</title>
</head>
<body>
...
</body>
</html>

```

FIG. 4.

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