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(54) **INTERNET HOSTING SYSTEM**

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(52) **U.S. Cl.** **709/245**; 709/203; 705/14
(58) **Field of Search** 709/245, 201,
709/207, 203; 705/14; 707/203

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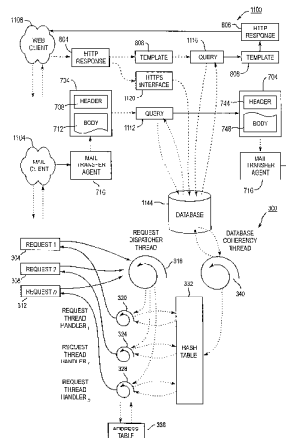
(57) **ABSTRACT**

A method and apparatus for providing domain name services
includes a multi-threaded name server which concurrently
handles multiple domain name resolution requests and is
particulary well suited for an Internet host system control-
ling information relating to a very large number of domain
names. A database coherency thread continuously refreshes
a host name cache that is utilized by the multi-threaded name
server. The multi-threaded name server may comprise a
request dispatcher thread capable of spawning multiple child
threads, resulting in a multi-threaded, non-blocking name
server. One or more additional network services are also
provided by the system, preferably through a common,
centralized database. For example, in one embodiment,
electronic message forwarding services are provided. In
another embodiment, web services are provided wherein
hypertext markup language (HTML) pages are dynamically
generated from data in the database corresponding to the
requested host name.

8 Claims, 9 Drawing Sheets

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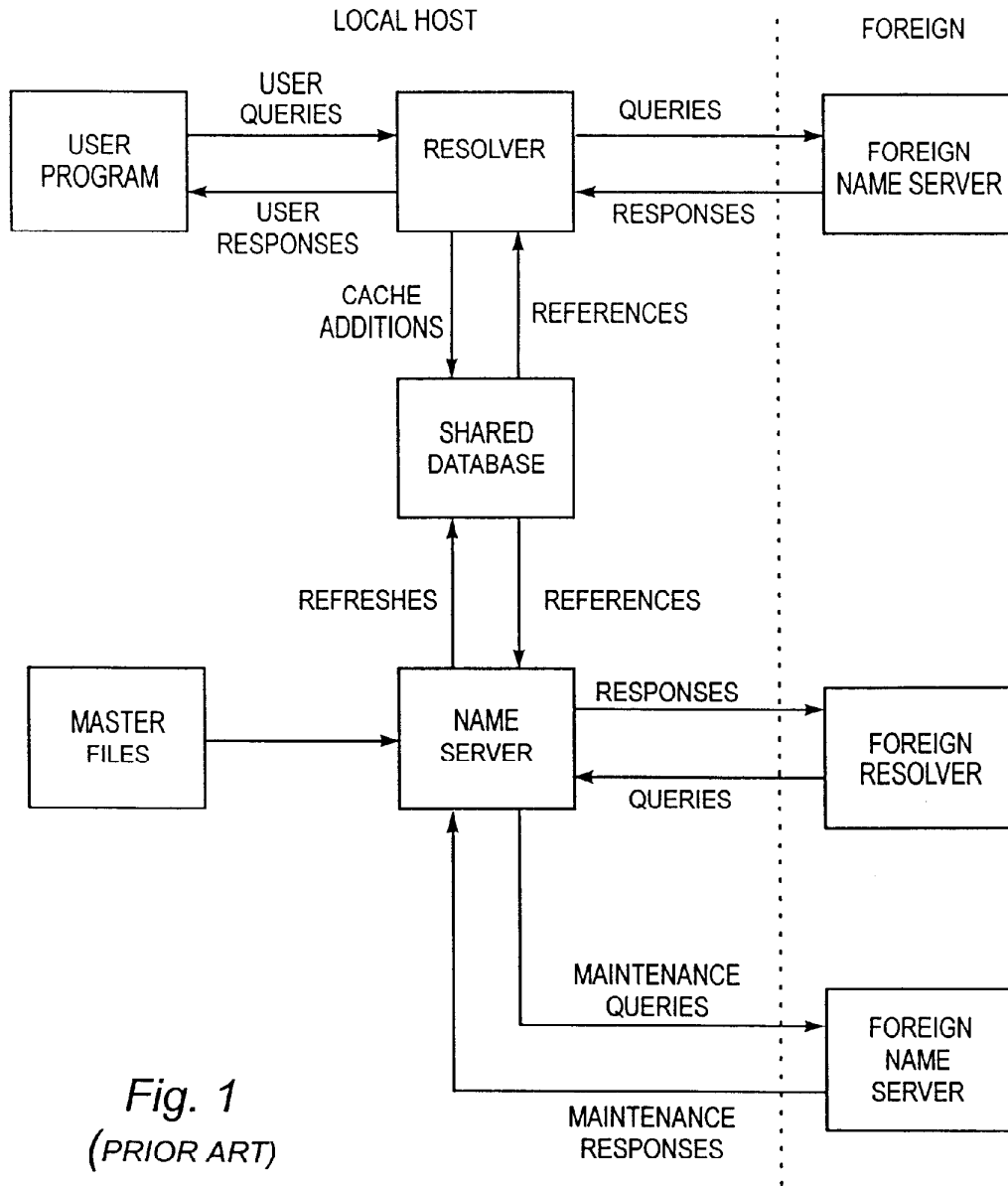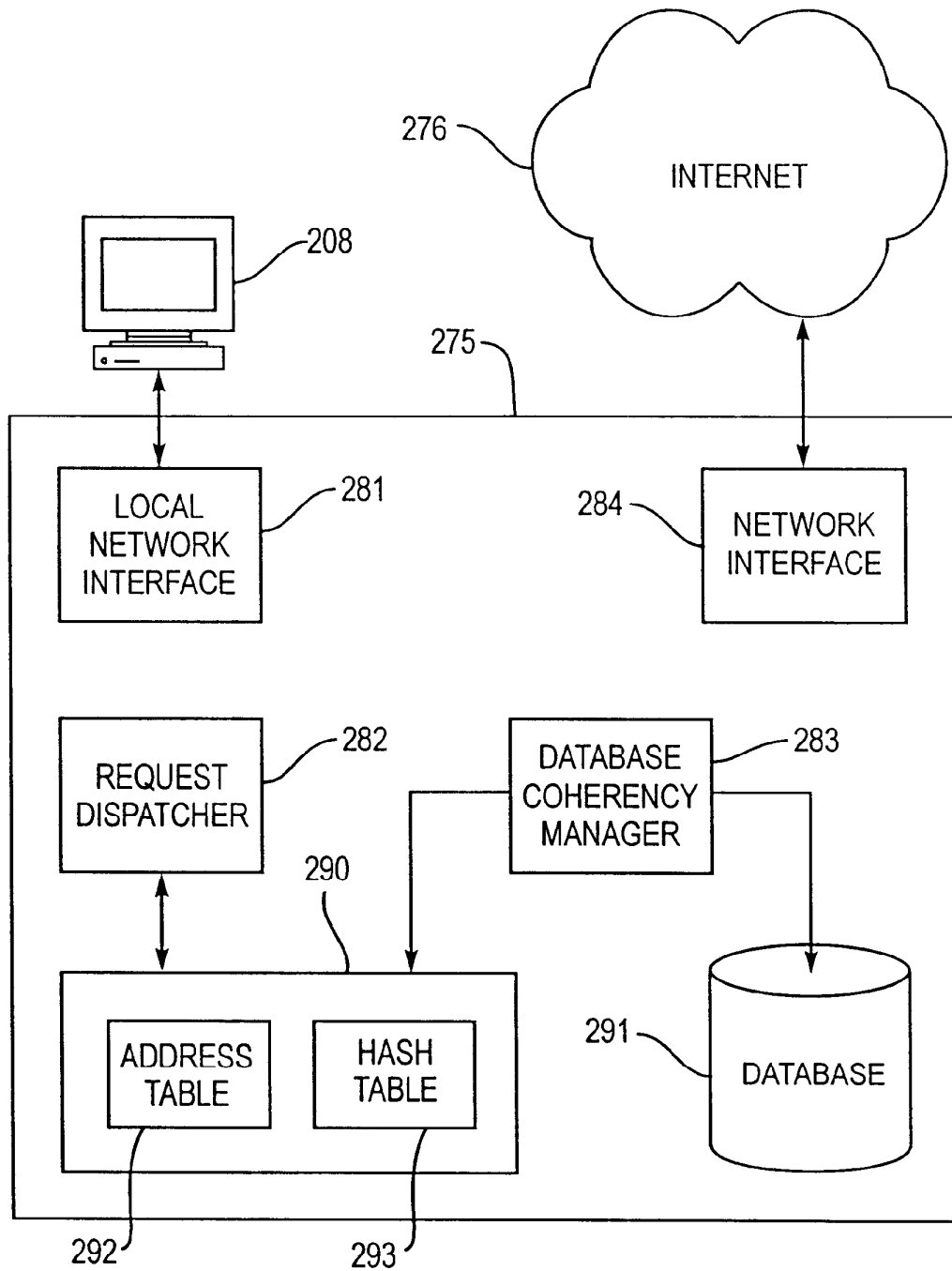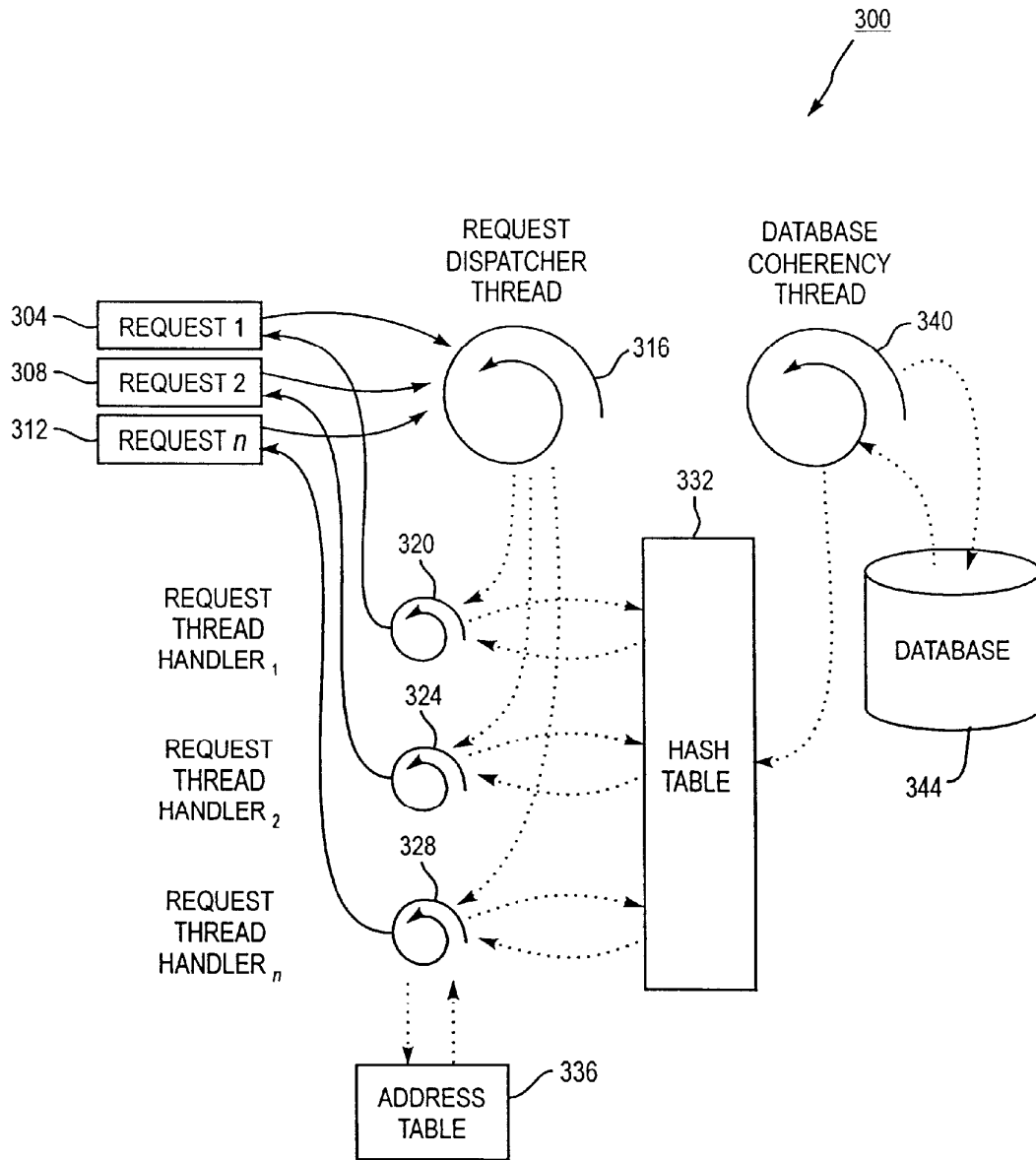
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Fig. 1
(*PRIOR ART*)

Fig. 2

Fig. 3

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