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**Loomans**

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(54) **TECHNIQUES FOR MANAGING MULTIPLE THREADS IN A BROWSER ENVIRONMENT**

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(21) Appl. No.: **09/437,421**

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#### Related U.S. Application Data

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(51) Int. Cl.<sup>7</sup> ..... **G06F 9/00**

(52) U.S. Cl. .... **718/102**; 709/203; 709/204; 709/205; 709/206

(58) Field of Search ..... 709/102, 200-210, 709/310, 322; 707/526; 713/1; 718/102

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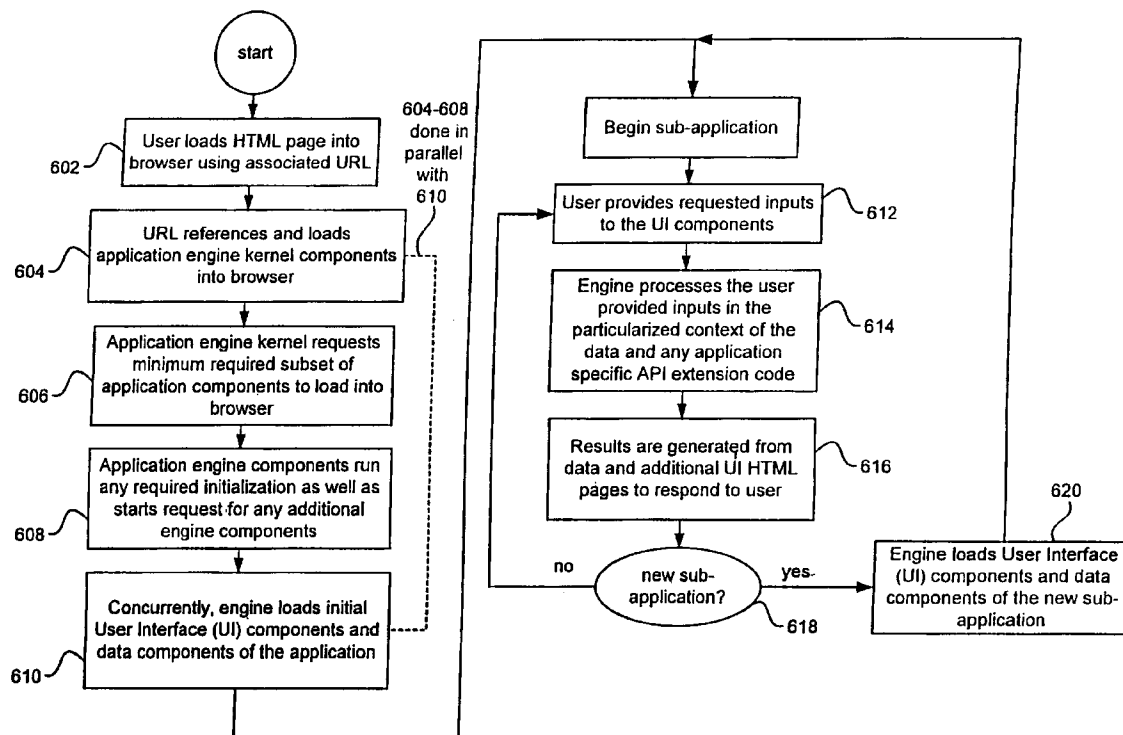
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(57)

#### ABSTRACT

Techniques for managing multiple threads in an asynchronous environment, such as a browser, are described. As a method, instantiating an event thread in response to a user event by a shell event handler block that provides shell functions for a user event. Once the event thread as been instantiated, managing the event thread by a generic thread manager block that provides a plurality of multithread management functions for the shell event handler. When required, blocking and unblocking the event thread by a blocking system that is arranged to block and unblock threads.

**11 Claims, 7 Drawing Sheets**



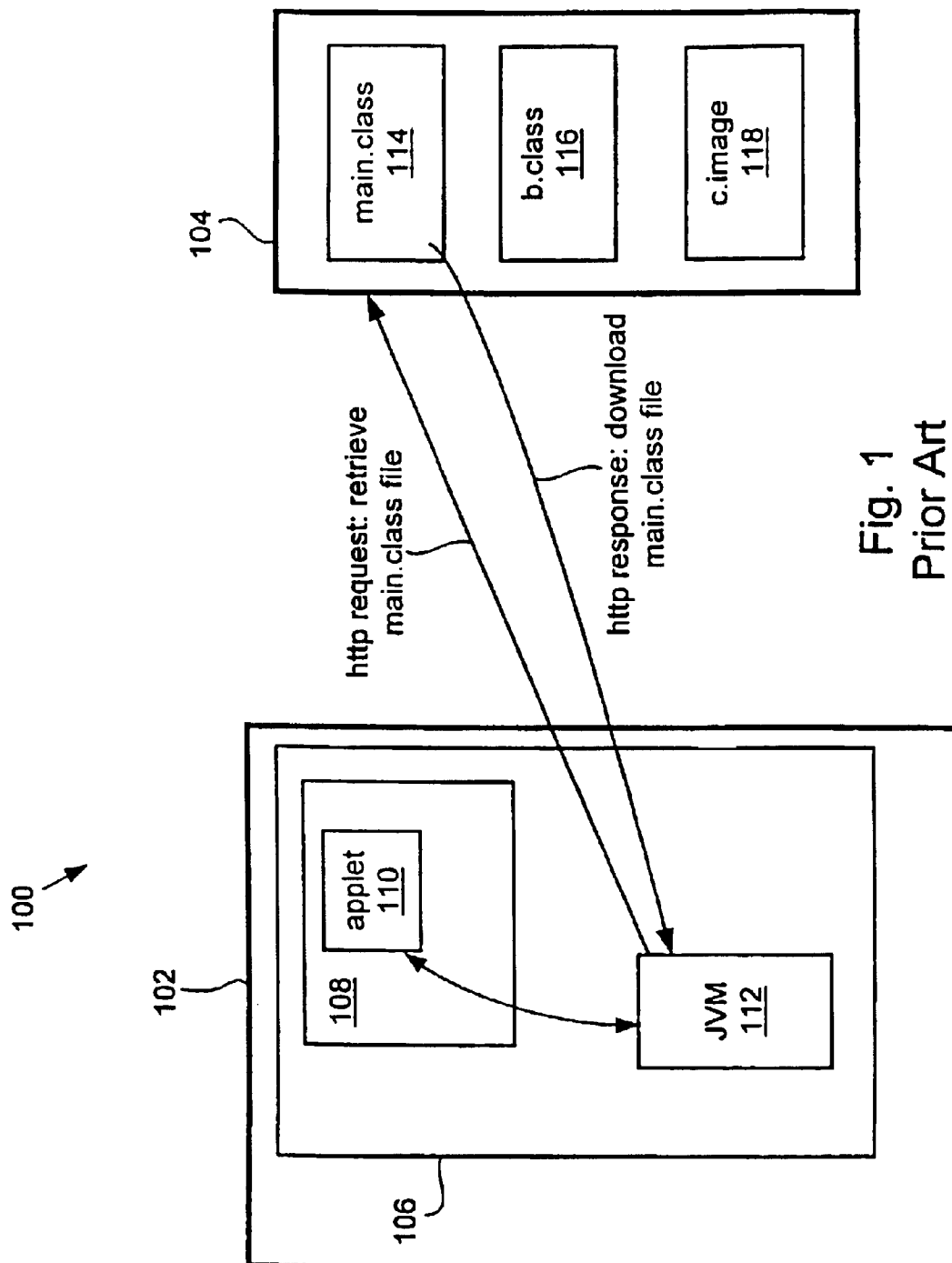


Fig. 1  
Prior Art

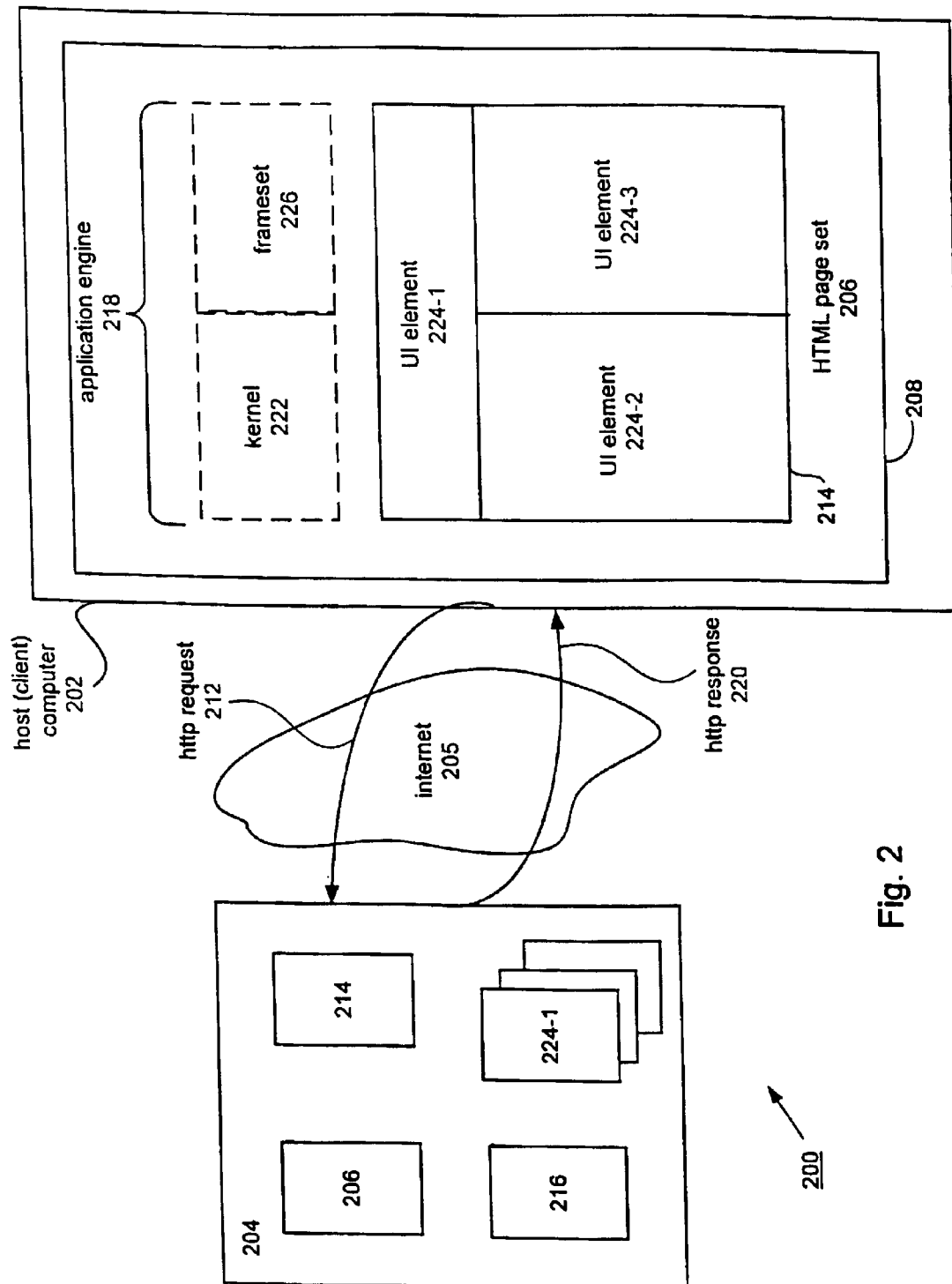


Fig. 2

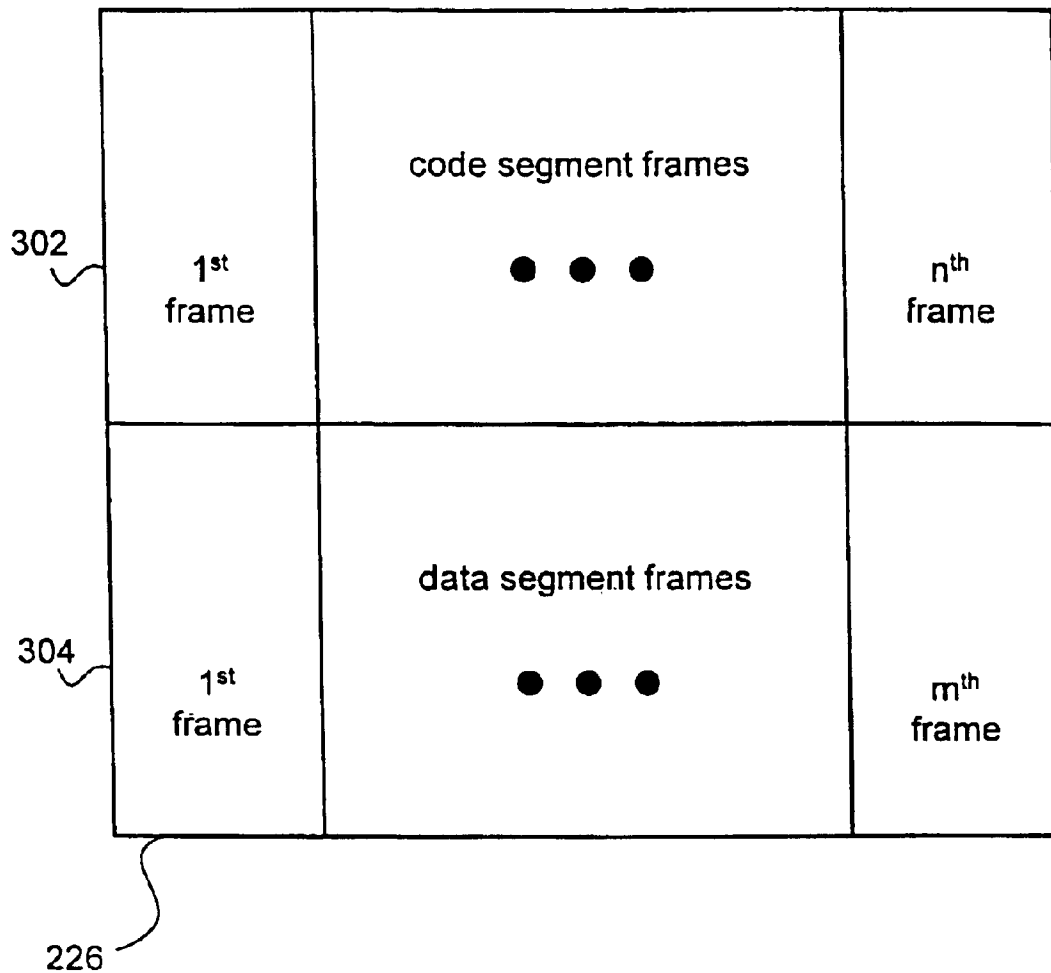


Fig. 3

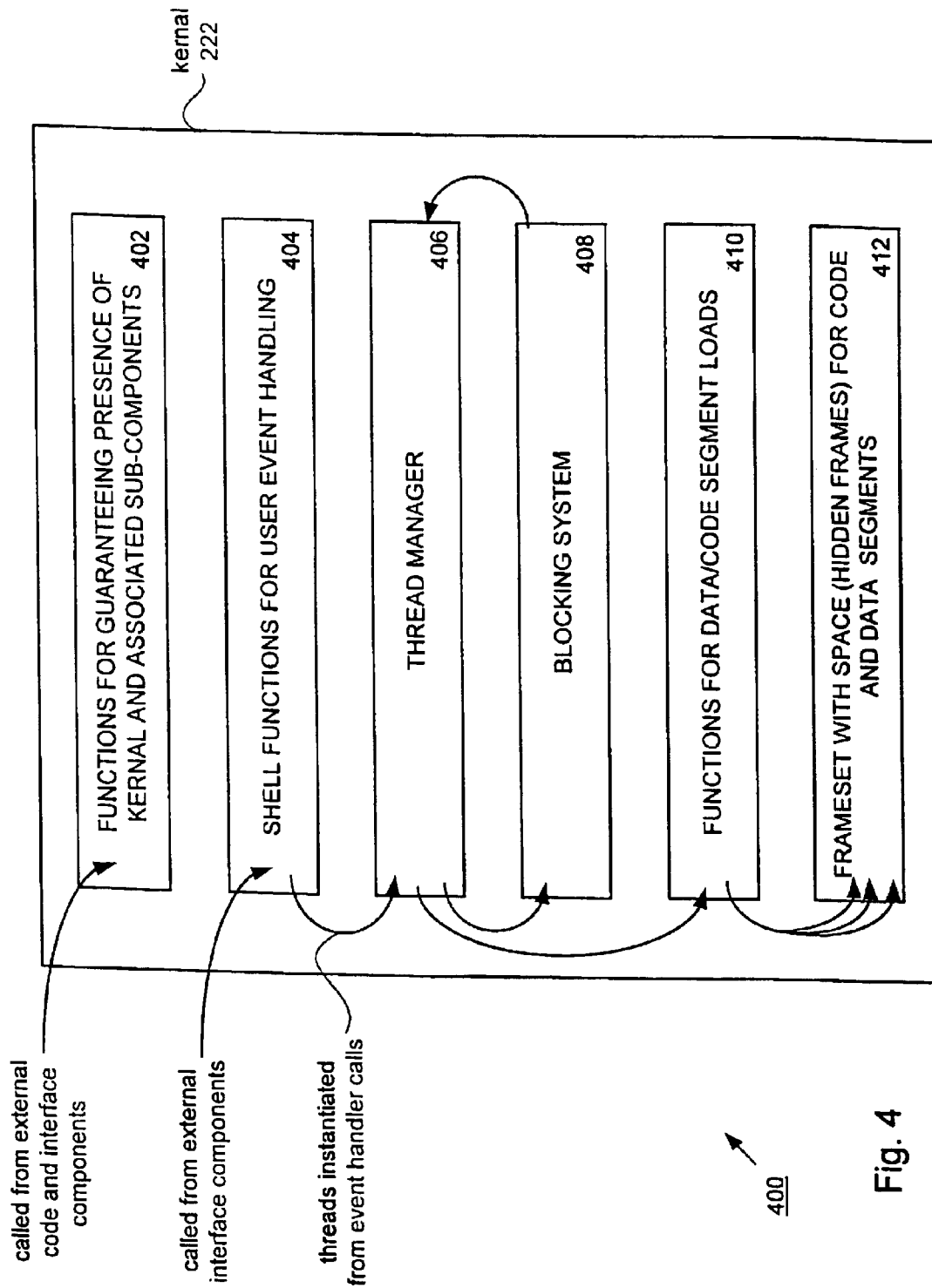


Fig. 4

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