



[54] MOBILE CODE ISOLATION CAGE

WO 97/12321 4/1997 WIPO G06F 11/00

[75] Inventors: John Albert Bull, Northants; David John Otway, Cambridge, both of United Kingdom

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Jan Vitek et al., "Mobile Object Systems Towards the Programmable Internet", Second International Workshop, MOS'96, pp. 177-199.

[73] Assignee: Citrix Systems, Inc., Fort Lauderdale, Fla.

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[*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Marshall D. Abrams et al., "Trusted System Concepts", Computers & Security, vol. 14, No. 1, 1995, pp. 45-56.

Francois Rouaix, "A Web navigator with applets in Caml", Computer Networks and ISDN Systems, 1996, pp. 1365-1371.

[21] Appl. No.: 08/718,874

Primary Examiner—Dieu-Minh T. Le

[22] Filed: Sep. 24, 1996

Attorney, Agent, or Firm—Testa, Hurwitz & Thibeault, LLP

[30] Foreign Application Priority Data

[57] ABSTRACT

Aug. 9, 1996 [GB] United Kingdom 9616783

The present invention reduces the risk of damage to data or programs in an end user computer system programmed to operate in response to an imported data stream containing one or more mobile program components from an external source. The incoming data stream is screened to identify mobile program components of that data stream. Some of the mobile program components are passed to a program execution location isolated from the end user system prior to being executed to operate in a desired manner. The execution location has an interface with the external source of the data stream and an interface with the end user system. The operation of the interface between the execution location and the end user system is programmed so that only data which has been interacted on by the program component within the execution location in a specified and controlled manner can be passed to and from the end user system.

[51] Int. Cl.⁷ G06F 11/30; H04L 9/00; H04L 9/32

[52] U.S. Cl. 713/200; 713/201; 380/4

[58] Field of Search 395/186, 187.01, 395/188.01, 704; 380/4, 23, 25; 713/200, 201, 202; 709/218, 223, 224, 225, 231, 250

[56] References Cited

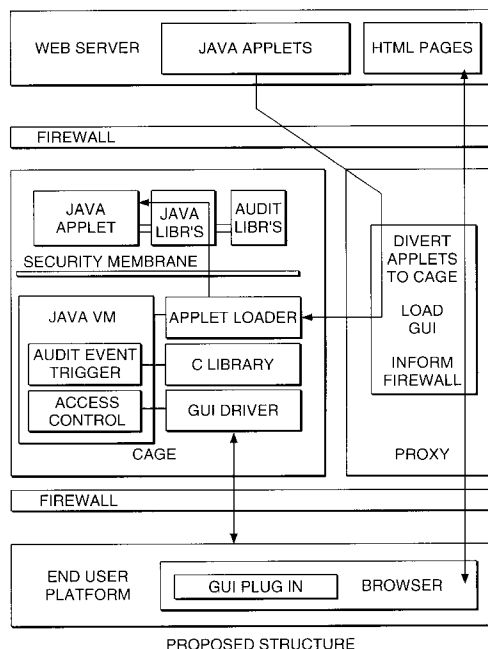
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0 658 848 A2 10/1994 European Pat. Off. G06F 12/14
2 136 171 9/1984 United Kingdom G11C 8/00

14 Claims, 4 Drawing Sheets



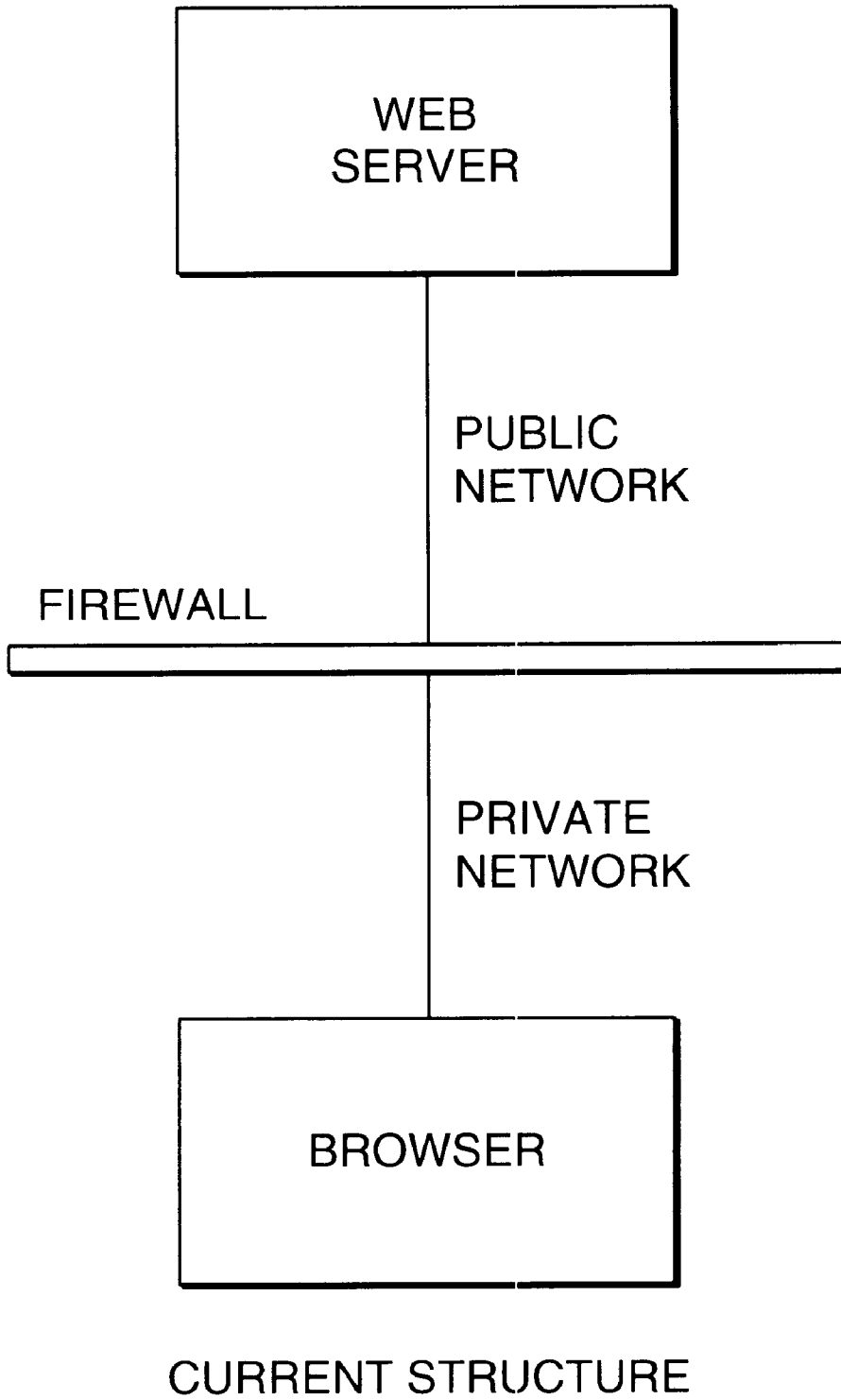
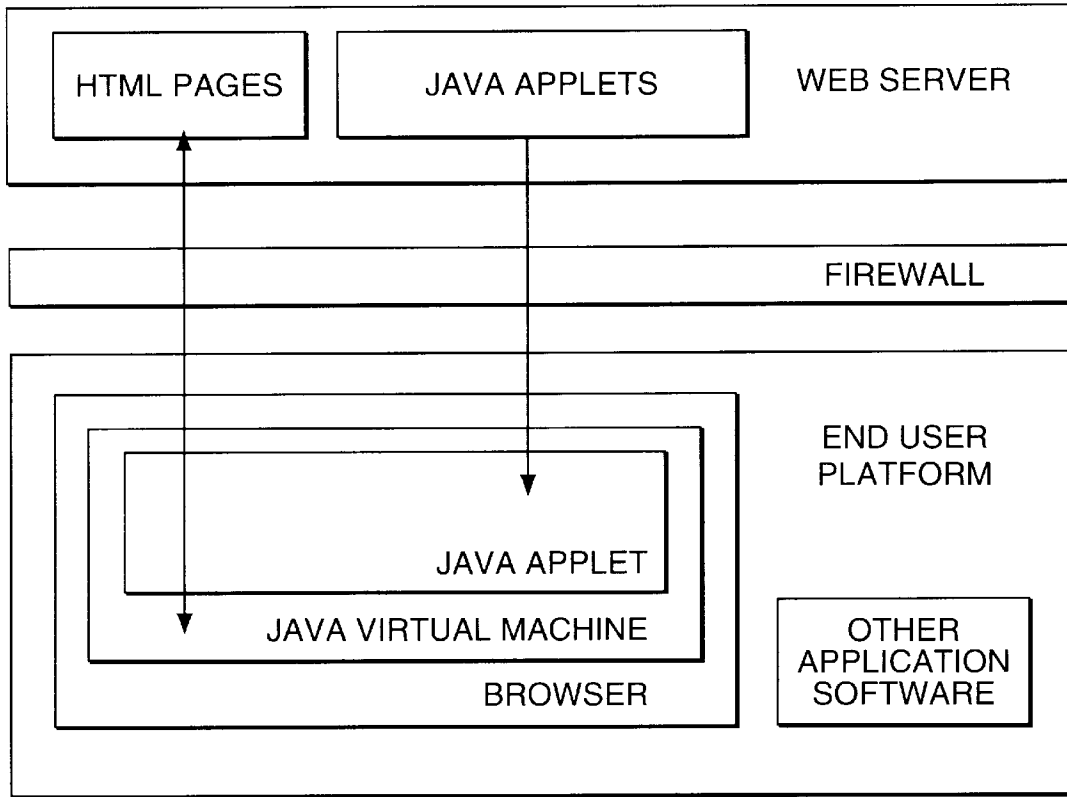
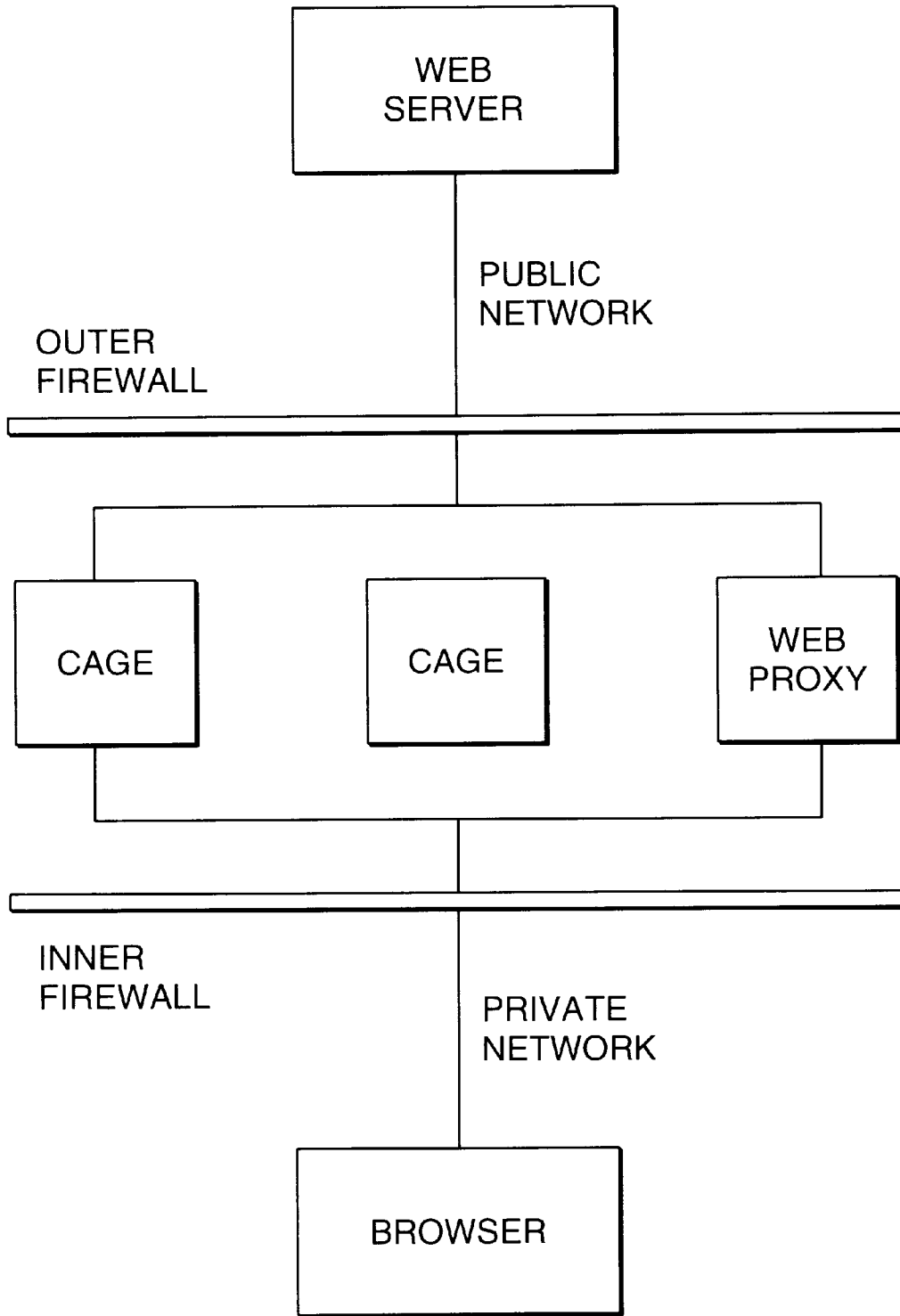


FIG. 1



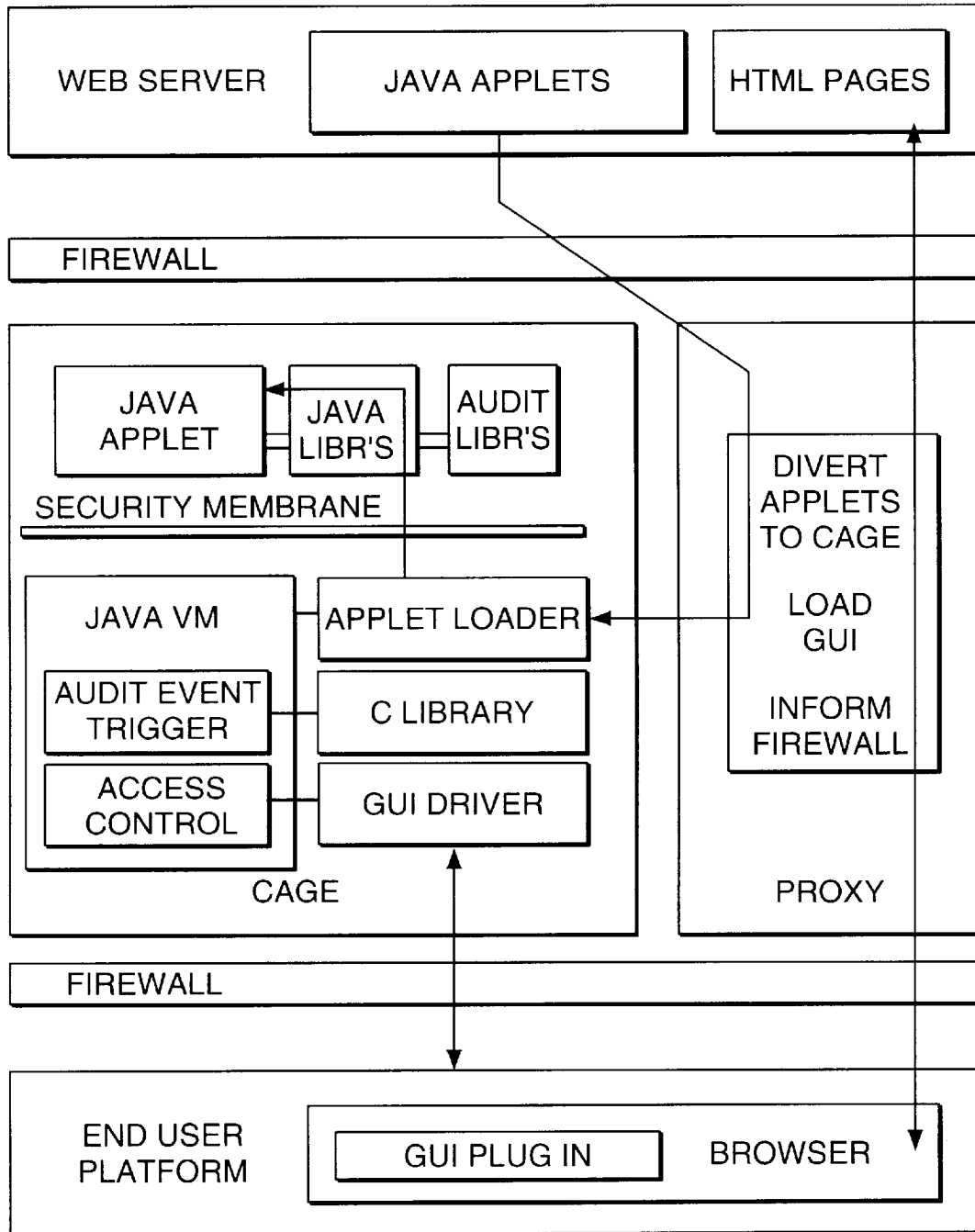
CURRENT STRUCTURE

FIG. 2



PROPOSED STRUCTURE

FIG. 3



PROPOSED STRUCTURE

FIG. 4

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