

Exhibit 4



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(12) **United States Patent**
Ederly et al.

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(54) **METHOD AND SYSTEM FOR PROTECTING A COMPUTER AND A NETWORK FROM HOSTILE DOWNLOADABLES** 5,359,659 A 10/1994 Rosenthal 726/24
(Continued)

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 659 days.
This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

(57) **ABSTRACT**

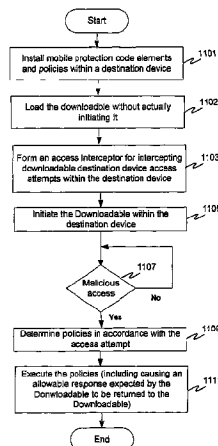
(63) Continuation of application No. 09/861,229, filed on May 17, 2001, now Pat. No. 7,058,822, and a continuation-in-part of application No. 09/539,667, filed on Mar. 30, 2000, now Pat. No. 6,804,780, which is a continuation of application No. 08/964,388, filed on Nov. 6, 1997, now Pat. No. 6,092,194, said application No. 09/861,229 is a continuation-in-part of application No. 09/551,302, filed on Apr. 18, 2000, now Pat. No. 6,480,962.
(60) Provisional application No. 60/205,591, filed on May 17, 2000.

Protection systems and methods provide for protecting one or more personal computers ("PCs") and/or other intermittently or persistently network accessible devices or processes from undesirable or otherwise malicious operations of Java™ applets, ActiveX™ controls, JavaScript™ scripts, Visual Basic scripts, add-ins, downloaded/uploaded programs or other "Downloadables" or "mobile code" in whole or part. A protection engine embodiment provides, within a server, firewall or other suitable "re-communicator," for monitoring information received by the communicator, determining whether received information does or is likely to include executable code, and if so, causes mobile protection code (MPC) to be transferred to and rendered operable within a destination device of the received information, more suitably by forming a protection agent including the MPC, protection policies and a detected-Downloadable. An MPC embodiment further provides, within a Downloadable-destination, for initiating the Downloadable, enabling malicious Downloadable operation attempts to be received by the MPC, and causing (predetermined) corresponding operations to be executed in response to the attempts, more suitably in conjunction with protection policies.

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G06F 21/24 (2006.01)
G06F 11/30 (2006.01)
H04L 9/00 (2006.01)
G06F 15/16 (2006.01)
(52) **U.S. Cl.** **713/181**; 713/175; 713/176; 726/24
(58) **Field of Classification Search** None
See application file for complete search history.

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30 Claims, 10 Drawing Sheets



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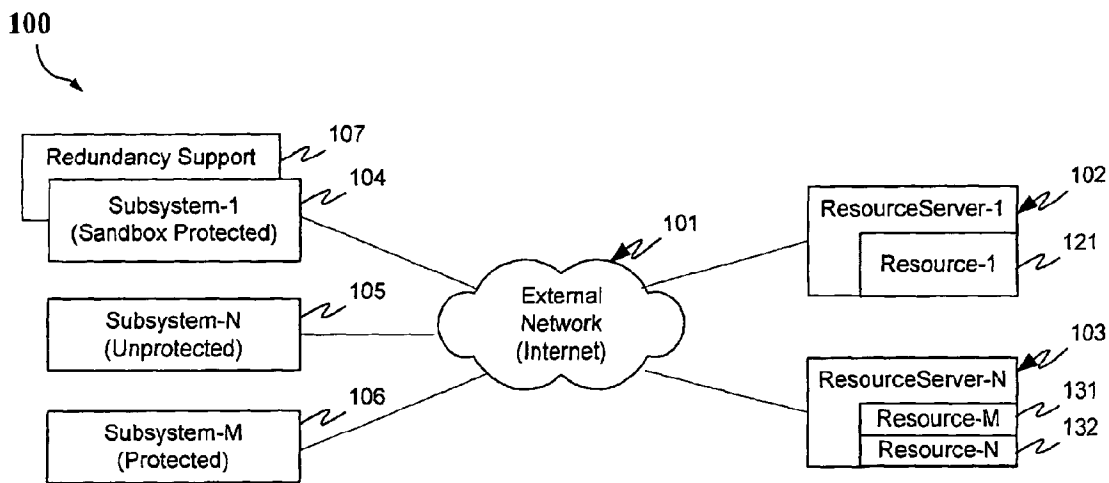


FIG. 1a

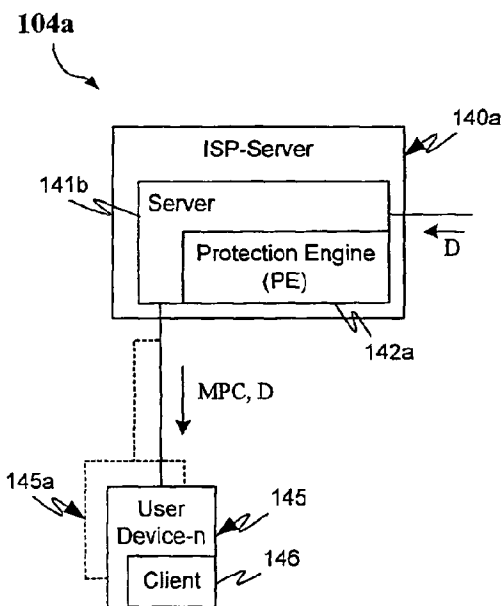


FIG. 1b

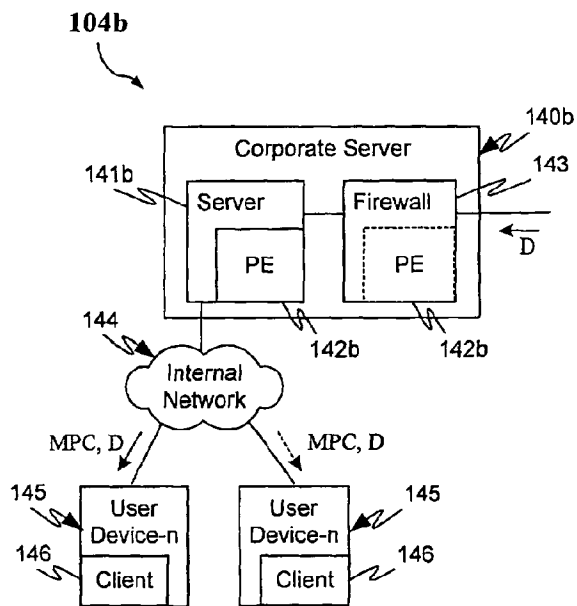


FIG. 1c

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