Exhibit 12



US006092194A

United States Patent [19]

Touboul

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*Jul. 18, 2000 **Date of Patent:** [45]

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(List continued on next page.)

Primary Examiner—Robert W. Beausoliel, Jr. Assistant Examiner—Christopher Revak Attorney, Agent, or Firm-Graham & James LLP

ABSTRACT

A system protects a computer from suspicious Downloadables. The system comprises a security policy, an interface for receiving a Downloadable, and a comparator, coupled to the interface, for applying the security policy to the Downloadable to determine if the security policy has been violated. The Downloadable may include a Java™ applet, an ActiveXTM control, a JavaScriptTM script, or a Visual Basic script. The security policy may include a default security policy to be applied regardless of the client to whom the Downloadable is addressed, or a specific security policy to be applied based on the client or the group to which the client belongs. The system uses an ID generator to compute a Downloadable ID identifying the Downloadable, preferably, by fetching all components of the Downloadable and performing a hashing function on the Downloadable including the fetched components. Further, the security policy may indicate several tests to perform, including (1) a comparison with known hostile and non-hostile Downloadables; (2) a comparison with Downloadables to be blocked or allowed per administrative override; (3) a comparison of the Downloadable security profile data against access control lists; (4) a comparison of a certificate embodied in the Downloadable against trusted certificates; and (5) a comparison of the URL from which the Downloadable originated against trusted and untrusted URLs. Based on these tests, a logical engine can determine whether to allow or block the Downloadable.

68 Claims, 10 Drawing Sheets

395/750.03	,
Start	655
Receive Results from First Comparator, ACL Comparator, Certificate Comparator and URL Comparator and URL	
Compare Results with Security Policies	
Security Policies No Confirm Pass?	670
Yes 896 Pass Downloadable	Stop Downlosdable 672
Record Findings	Send Substitute Downloadblc to Inform The User
End	

[54] SYSTEM AND METHOD FOR PROTECTING A COMPUTER AND A NETWORK FROM HOSTILE DOWNLOADABLES Inventor: Shlomo Touboul, Kefar-Haim, Israel Assignee: Finjan Software, Ltd., Netanya, Israel [*] 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.

[21] Appl. No.: **08/964,388** Nov. 6, 1997 [22] Filed:

Related U.S. Application Data [60] Provisional application No. 60/030,639, Nov. 8, 1996.

154(a)(2).

[51]	Int. Cl. ⁷ H04L 1/00
[52]	U.S. Cl
[58]	Field of Search

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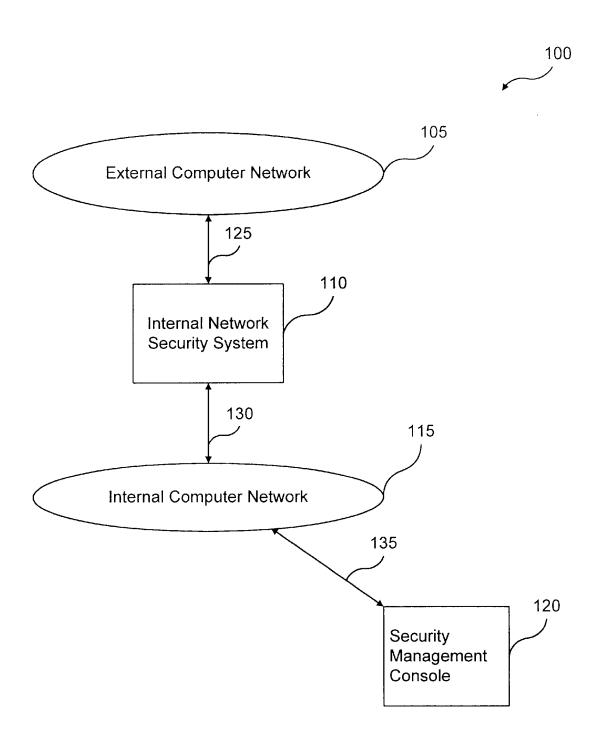
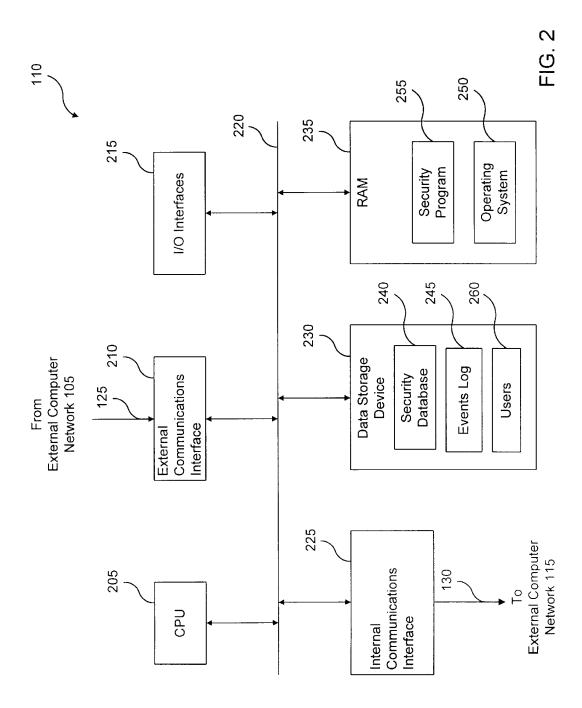


FIG. 1





DOCKET

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