PATENT APPLICATION TRANSMITTAL LETTER (Small Entity)	Docket No. 40492.00002

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Transmitted herewith for filing under 35 U.S.C. 111 and 37 C.F.R. 1.53 is the patent application of:

Shlomo Touboul

For:

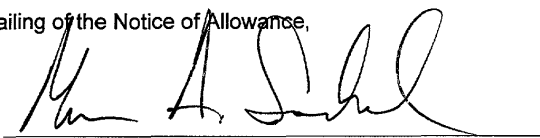**System and Method for Protecting a Computer and a Network from Hostile Downloadables**

Enclosed are:

☒ Certificate of Mailing with Express Mail Mailing Label No.   EM096316525US
☒ **10**   sheets of drawings.
☐ A certified copy of a   application.
☒ Declaration   ☐ Signed.   ☒ Unsigned.
☒ Power of Attorney
☐ Information Disclosure Statement
☐ Preliminary Amendment
☐   Verified Statement(s) to Establish Small Entity Status Under 37 C.F.R. 1.9 and 1.27.
☐ Other:

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	70	- 20 =	50	x $11.00	$550.00
Indep. Claims	5	- 3 =	2	x $41.00	$82.00
Multiple Dependent Claims (check if applicable) ☐					$0.00
				BASIC FEE	$395.00
				TOTAL FILING FEE	$1,027.00

☒ A check in the amount of   **$1,027.00**   to cover the filing fee is enclosed.
☒ The Commissioner is hereby authorized to charge and credit Deposit Account No.   05-0150
  as described below. A duplicate copy of this sheet is enclosed.
  ☐ Charge the amount of   as filing fee.
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  ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance,
     pursuant to 37 C.F.R. 1.311(b).

Dated:

_____
Signature
Marc Sockol, Reg. No. 40,823

Graham & James LLP
600 Hansen Way
Palo Alto, CA 94304-1043

cc:

P01SMALL/REV06

11/06/97

APPLICATION FOR

UNITED STATES PATENT

IN THE NAME OF

Shlomo Touboul

OF

FINJAN SOFTWARE, LTD.

SYSTEM AND METHOD FOR PROTECTING A COMPUTER AND A

NETWORK FROM HOSTILE DOWNLOADABLES

DOCKET NO. 40492.00002

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SYSTEM AND METHOD FOR PROTECTING A COMPUTER AND A NETWORK

FROM HOSTILE DOWNLOADABLES

5   PRIORITY REFERENCE TO PROVISIONAL APPLICATION

This application claims benefit of and hereby incorporates by reference

provisional application serial number 60/030,639, entitled "System and Method for

Protecting a Computer from Hostile Downloadables," filed on November 8, 1996, by

inventor Shlomo Touboul.

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INCORPORATION BY REFERENCE TO RELATED APPLICATION

This application hereby incorporates by reference related U.S. patent application

serial number 08/790,097, entitled "System and Method for Protecting a Client from

Hostile Downloadables," filed on January 29, 1997, by inventor Shlomo Touboul.

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BACKGROUND OF THE INVENTION

1.   Field of the Invention

This invention relates generally to computer networks, and more particularly

provides a system and method for protecting a computer and a network from hostile

20   Downloadables.

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2.   Description of the Background Art

The Internet is currently a collection of over 100,000 individual computer

networks owned by governments, universities, nonprofit groups and companies, and is

5   expanding at an accelerating rate. Because the Internet is public, the Internet has become

a major source of many system damaging and system fatal application programs,

commonly referred to as "viruses."

Accordingly, programmers continue to design computer and computer network

security systems for blocking these viruses from attacking both individual and network

10   computers. On the most part, these security systems have been relatively successful.

However, these security systems are not configured to recognize computer viruses which

have been attached to or configured as Downloadable application programs, commonly

referred to as "Downloadables." A Downloadable is an executable application program,

which is downloaded from a source computer and run on the destination computer.

15   Downloadable is typically requested by an ongoing process such as by an Internet

browser or web engine. Examples of Downloadables include Java™ applets designed for

use in the Java™ distributing environment developed by Sun Microsystems, Inc.,

JavaScript scripts also developed by Sun Microsystems, Inc., ActiveX™ controls

designed for use in the ActiveX™ distributing environment developed by the Microsoft

20   Corporation, and Visual Basic also developed by the Microsoft Corporation. Therefore, a

system and method are needed to protect a network from hostile Downloadables.

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SUMMARY OF THE INVENTION

The present invention provides a system for protecting a network 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

5   policy to the Downloadable to determine if the security policy has been violated. The Downloadable may include a Java™ applet, an ActiveX™ control, a JavaScript™ 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, a specific security policy to be applied based on the client or the group to which the client belongs,

10   or a specific policy to be applied based on the client/group and on the particular Downloadable received. 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.

15   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

20   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.

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