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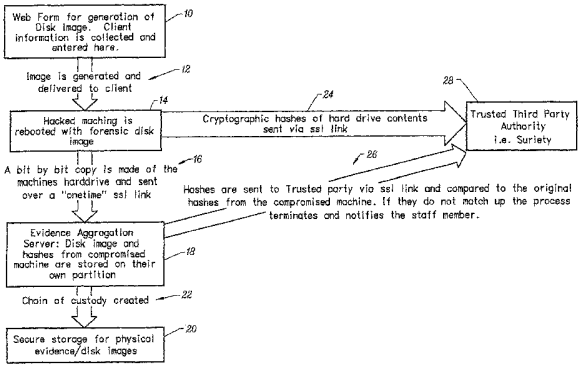
(54) Title: REMOTE COMPUTER FORENSIC EVIDENCE COLLECTION SYSTEM AND PROCESS



(57) Abstract: The incident response team enters relevant data into a CGI template, i.e. a script. The script then generates an appropriate kernel image for the client machine (10) along with a client folder on the evidence aggregation server. This is where the data is stored, the data about the victim machine. A partition on the evidence aggregation server is also created. The client is also provided orally with a one-time password. The client then connects to the signing authority web site with the one-time password and downloads the kernel boot image onto a storage medium, such as a floppy disk. The disk image is encrypted using an encryption application such as open PGP, and the encrypted image is sent to the client (12). The client inserts the floppy disk that contains the bootable image into the victim machine, and reboots the machine from the floppy disk (14). Data are retrieved from the victim machine, streamed to the evidence aggregation server (18) via an SSL connection, stored at the evidence aggregation server (18) to a hard drive of the victim machine, and processed (16). A message digest is written across the secure connection to a disk on the secure server (24). Hashes are sent to trusted party via the ssl (26 and 28) and compared to the original hash from the compromised machine. Timestamps are also taken and written to the disk on the secure server (18). The disk on the secure server (18) is removed and a chain of custody is created (22). The evidence is stored in a secure location (20).

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/06622

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : GO6F 11/60
US CL : 713/200

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 155, 200, 201, 202; 711/161, 162, 163, 164

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
N/A

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Dialog and East, Forensic, ambient data, biometrics, copying adj images, suspect or victim

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,960, 460 A(MARASCO et al.) 28 SEPTEMBER 1999, see col. 1, lines 66-67, col. 2, lines 1-24, col. 3, lines 52-60, col. 5, lines 4-67, col. 9, lines 13-24.	1-4 ---------- 9
Y	US 6,091,835 A(SMITHES et al.) 18 JULY 2000, see col. 1, lines 1-35, col. 2, lines 41-45, col. 14, lines 22-47, col. 24, lines 1-25.	9
A	US 5,781,629 A(HABER et al.) 14 JULY 1998, see col. 1, lines 64-67, col. 2, lines 1-5.	10
A,P	US 6,263, 349 A B1(ANDERSON) 17 JULY 2001, see col. 1, lines 35-43, col. 7, lines 49-56.	1

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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