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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM AND METHODS FOR PROVIDING TRUSTED TIME IN CONTENT OF DIGITAL DATA FILES

(57) Abstract: A personal computer (PC) system and methods for proving dates of digital data files, which are accessed, created, modified, received, or transmitted by the PC includes a trusted time source in a tamperproof environment, a first subsystem for saving the file at a moment in time, a second subsystem for retrieving from the trusted time source a date and a time corresponding to the moment in time, a third subsystem for appending the date and the time retrieved from the trusted time source to the saved file, a fourth subsystem for signing the saved file with the date and the time retrieved from the trusted time source appended thereto, a fifth subsystem means for hashing the signed file to produce a digest, a sixth subsystem for signing the digest with a key to produce a certificate, a seventh subsystem for appending the certificate to the saved file, and an eighth subsystem for saving the file with the certificate appended thereto. The trusted time source is a real time clock, which is not resettable, is independent of any system clock of the PC, and is installed locally relative to the PC.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H04L 9/00**(2007.01)

USPC: 713/178

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. : 713/178

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Google /Scholar/AltaVista/Springer

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
ACM/IEEE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	TAKURA, O. A Secure and Trusted Time Stamping Authority, Internet Workshop 1999, March 1999, pages 88-93.	1-5
Y	US 5,821,508 (WILLARD) 13 October 1998 (13.10.1998)	1-5
A	US 6,792,536 B1 (TEPLER) 14 September 2004 (14.09.2004)	1-5

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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