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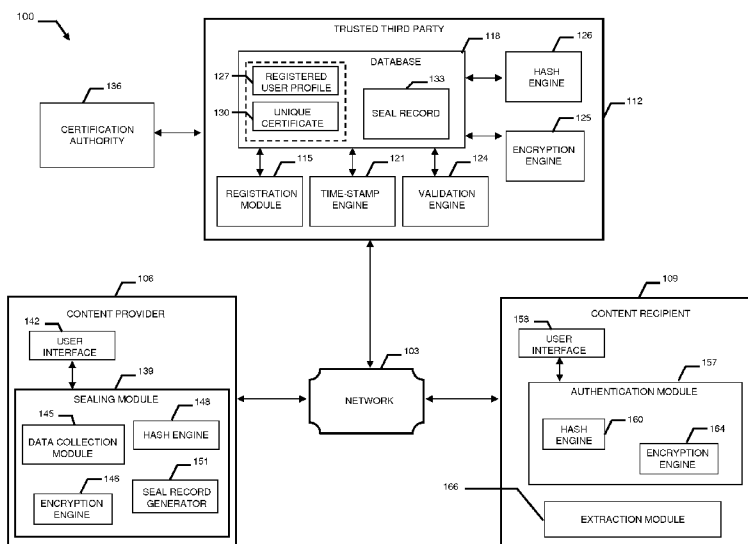
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[Continued on next page]

(54) Title: SYSTEM AND METHOD TO VALIDATE AND AUTHENTICATE DIGITAL DATA



(57) Abstract: A system and method combining registration with a trusted third party, certificate generation, hashing, encryption, customizable file identification fields, and time-stamping technology with recognized "best practice" procedures to achieve the legal admissibility and evidential weight of any form of digital file or collection of digital files. Generally, the originator of the file (the first party) and the originator's employing organization are registered with a Trusted Third Party. The originator reduces the file, by means of a hashing algorithm, to a fixed bit length binary pattern. This provides a unique digital fingerprint of the file. The resultant hash value, the originator's identity details, the employing organization details associated and securely linked to the digital certificate, the title of the file, customizable file identification fields, and other relevant

data are forwarded to a Trusted Third Party where the date and time from a known and trusted time source are added. The customizable file identification fields can provide the originator with a mechanism for configuring the seal to incorporate as much additional information as deemed necessary to prove the authenticity of the digital content and/or provide data for the purposes of adding value in functions such as source identification, sorting, analysis, investigation, and compliance. Such information could include, but would not be limited to, location/GPS coordinates, machine id, biometric information, smart-card data, reason for sealing. The original file does not leave the control of the originating party. When combined, the forwarded details and date and time create a Seal Record. The Seal Record is encrypted and hashed. The Seal Record along with all other relevant information are retained on a central secure server. The recipient of the file (the second party) can confirm the file has been received in an unaltered state with integrity retained and it is the authentic version by validating the file.

WO 2008/058123 A3



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A. CLASSIFICATION OF SUBJECT MATTER**H04L 9/12(2006.01)i, H04L 9/32(2006.01)i**

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)

IPC 8 H04L 9/12, H04L 9/32, G06F 11/30, G06F 1/24, G06F 17/00

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

Korean Utility Models and applications for Utility Models since 1975

Japanese Utility Models and applications for Utility Models since 1975

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

e-KIPASS(KIPO internal) & keyword: "content", "authentication", "hash"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2006-073250 A2 (LG ELECTRONICS INC.) 13 July 2006 See the abstract and figure 10.	1-22
A	US 6931545 B1 (THANH TA et al) 16 August 2005 See the abstract, claim1 and figure 3.	1-22
A	US 6381696 B1 (MICHAEL D. DOYLE) 30 April 2002 See the abstract and figure 1.	1-22
A	KR 10-2004-0065413 A (WEB DATA BANK CO., LTD.) 22 July 2004 See the abstract and figure 1.	1-22

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

* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family


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