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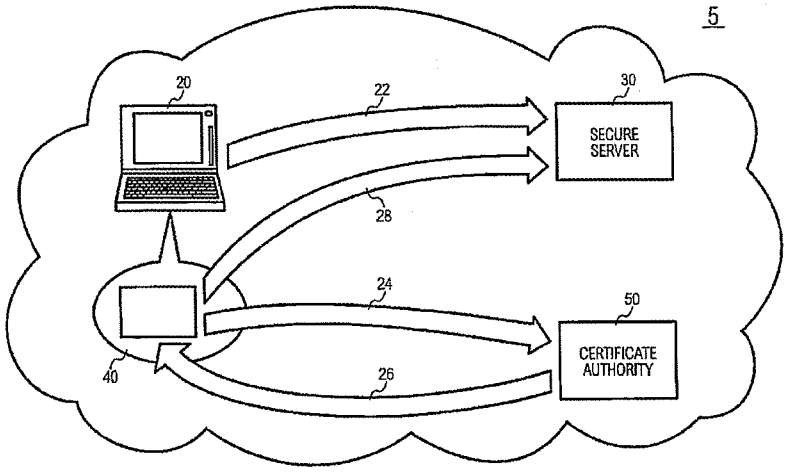
(54) Title: SYSTEM AND METHOD FOR IMPLEMENTING DIGITAL SIGNATURE USING ONE TIME PRIVATE KEYS



(57) Abstract: The present invention relates to a system and method for implementing digital signatures using one time private keys. A system (5) implements digital signatures over a network and comprises a signing entity (20), a secure server (30), an OTPK (One Time Private Key) module (40) and an authentication server (50). The signing entity (20), the secure server (30), the OTPK module (40) and the authetication and certification server (50) are able to communicate with each other through established protocols of secure communications. The OTPK module (40) performs the function of generating only new asymmetric key pairs and also performs the functinos of generating digital signatures or digitally signing the transactions. The transactions or instructions are authorised by way of a digital signature and once the digital signature has been generated using a private key, this private key is irretrievably deleted and the deleted private key can longer be re-used).

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