

Title (en)

METHOD AND SYSTEM FOR TRANSIENT KEY DIGITAL TIME STAMPS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG VON ZEITSTEMPELN MITTELS ÜBERGANGSSCHLÜSSELN

Title (fr)

PROCEDE ET SYSTEME POUR HORODATEURS NUMERIQUES A CLES TRANSITOIRES

Publication

EP 1018239 A1 20000712 (EN)

Application

EP 98949485 A 19980922

Priority

- US 9820036 W 19980922
- US 5945597 P 19970922

Abstract (en)

[origin: WO9916209A1] Irrefutable public key digital signature time-stamps (1040) are created and used based upon, for example, the concept of transient time-interval-related secret cryptographic keys (2010), which are used to digitally sign (2030) submitted data during specific time intervals, and then permanently destroyed (2040). The public-key correlate for each time interval is saved for future authentication of the content of time-stamped data and time of creation of time-stamped data. The validity of the public keys is ensured through the certification of each time interval's public key using the previous time interval's secret key, immediately before that secret key is destroyed.

IPC 1-7

H04L 9/32

IPC 8 full level

G09C 1/00 (2006.01); **H04L 9/32** (2006.01); **H04L 29/06** (2006.01)

CPC (source: EP KR)

H04L 9/30 (2013.01 - KR); **H04L 9/3247** (2013.01 - EP); **H04L 9/3297** (2013.01 - EP); **H04L 9/50** (2022.05 - EP); **H04L 63/0823** (2013.01 - EP); **H04L 63/12** (2013.01 - EP); **H04L 2209/60** (2013.01 - EP); **H04L 2463/121** (2013.01 - EP)

Cited by

US7801871B2; US8086578B2; US8843461B2

Designated contracting state (EPC)

BE DE ES FR GB IT LU NL

DOCDB simple family (publication)

WO 9916209 A1 19990401; AU 760742 B2 20030522; AU 760742 C 20061109; AU 9579698 A 19990412; CA 2304342 A1 19990401; CA 2304342 C 20090127; EP 1018239 A1 20000712; EP 1018239 A4 20050713; IL 135069 A0 20010520; JP 2001517818 A 20011009; JP 2010148098 A 20100701; JP 4563577 B2 20101013; KR 100563515 B1 20060327; KR 20010040248 A 20010515

DOCDB simple family (application)

US 9820036 W 19980922; AU 9579698 A 19980922; CA 2304342 A 19980922; EP 98949485 A 19980922; IL 13506998 A 19980922; JP 2000513384 A 19980922; JP 2009272639 A 20091130; KR 20007003052 A 20000322