Title (en)

ASSURING DATA INTEGRITY VIA A SECURE COUNTER

Title (de)

SICHERUNG DER DATENINTEGRITÄT ÜBER EINEN SICHEREN ZÄHLER

Title (fr)

INTEGRITE DES DONNEES ASSUREE VIA UN COMPTEUR SECURISE

Publication

EP 1141808 A1 20011010 (EN)

Application

EP 00972806 A 20001018

Priority

- EP 0010285 W 20001018
- US 16250399 P 19991029
- US 63672400 A 20000811

Abstract (en)

[origin: WO0133317A1] An access-control system includes a counter, and a secure memory location that is configured to contain a parameter that binds the contents of the counter to the data that is being protected. Each time the data is accessed, the counter is incremented and the binding parameter is updated, based on this new count. When a subsequent access is requested, the stored binding parameter is compared to a value corresponding to the binding of the current value of the counter with the data. If either the current value of the counter differs from the count that was used to produce the binding parameter, or the current data differs from the data that was used to produce the binding parameter, the new binding value will not correspond to the stored binding parameter, and access is denied. In this manner, a sequential access to the protected data can be enforced, thereby precluding a replay attack. Note that the data being protected may be data that is used to control access to other protected material, thereby expanding the scope of security protection to this other protected material.

IPC 1-7

G06F 1/00

IPC 8 full level

G06F 12/14 (2006.01); **G06F 21/62** (2013.01); **G06F 21/64** (2013.01)

CPC (source: EP KR)

G06F 3/0622 (2013.01 - KR); **G06F 21/604** (2013.01 - KR); **G06F 21/6227** (2013.01 - EP); **G06F 21/64** (2013.01 - EP KR); **G06F 21/77** (2013.01 - KR); G06F 2221/2101 (2013.01 - EP)

Citation (search report)

See references of WO 0133317A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

WO 0133317 A1 20010510; EP 1141808 A1 20011010; JP 2003513388 A 20030408; KR 20010100011 A 20011109

DOCDB simple family (application)

EP 0010285 W 20001018; EP 00972806 A 20001018; JP 2001535142 A 20001018; KR 20017008315 A 20010629