

Title (en)

TAMPER RESISTANT POSTAL SECURITY DEVICE WITH LONG BATTERY LIFE

Title (de)

BETRUGSSICHERE FRANKIERMASCHINENVORRICHTUNG MIT LANGER NUTZUNGSDAUER DER BATTERIE

Title (fr)

DISPOSITIF DE SECURITE ANTI-FRAUDE POUR AFFRANCHISSEUSE

Publication

EP 1064622 B1 20050720 (EN)

Application

EP 99912648 A 19990318

Priority

- US 9905891 W 19990318
- US 7848998 P 19980318

Abstract (en)

[origin: WO9948055A1] In accordance with the invention, a postal security device (PSD) (10) contains a non-volatile memory (13) which does not depend on battery power such as an EEPROM (13), and contains a nonvolatile memory (14, 16) which does depend on battery power, such as a static RAM. The PSD (10) also contains an encryption engine (12, 14, 22). An encryption key is developed and is stored in the static RAM (14), which is sized to be only large enough to contain the encryption key. A large body of data, too large to fit in the static RAM, is encrypted by means of the encryption engine (12, 14, 22) and with reference to the encryption key, and is stored in the EEPROM (13). This body of data typically includes cryptographic keys and sensitive bit-images. When the PSD is powered, a large RAM (typically a dynamic RAM) (16) is available to receive the large body of data, decrypted using the encryption key. A tamper switch (17) cuts power to both RAMs (14, 16) in the event of tampering.

IPC 1-7

G07B 17/00

IPC 8 full level

B41J 5/30 (2006.01); **G06F 12/14** (2006.01); **G06F 21/60** (2013.01); **G06F 21/62** (2013.01); **G06F 21/75** (2013.01); **G06F 21/86** (2013.01); **G07B 17/00** (2006.01); **H04L 9/10** (2006.01)

CPC (source: EP)

G07B 17/00193 (2013.01); **G07B 17/00362** (2013.01); **G07B 17/00733** (2013.01); **G07B 2017/00233** (2013.01); **G07B 2017/00258** (2013.01); **G07B 2017/00346** (2013.01); **G07B 2017/00395** (2013.01); **G07B 2017/00403** (2013.01); **G07B 2017/00862** (2013.01); **G07B 2017/00967** (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI

DOCDB simple family (publication)

WO 9948055 A1 19990923; AT E300069 T1 20050815; CA 2324100 A1 19990923; CA 2324100 C 20090804; DE 69926222 D1 20050825; DE 69926222 T2 20060524; EP 1064622 A1 20010103; EP 1064622 A4 20010718; EP 1064622 B1 20050720; JP 2002507802 A 20020312

DOCDB simple family (application)

US 9905891 W 19990318; AT 99912648 T 19990318; CA 2324100 A 19990318; DE 69926222 T 19990318; EP 99912648 A 19990318; JP 2000537179 A 19990318