

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

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Application
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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.

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