

Title (en)

COUNTERMEASURE METHOD AND DEVICES FOR ASYMMETRIC CRYPTOGRAPHY

Title (de)

GEGENMASSNAHMENVERFAHREN UND VORRICHTUNGEN FÜR ASYMMETRISCHE KRYPTOGRAPHIE

Title (fr)

PROCEDE ET DISPOSITIFS DE CONTRE-MESURE POUR CRYPTOGRAPHIE ASYMETRIQUE

Publication

**EP 2248009 A2 20101110 (FR)**

Application

**EP 09719837 A 20090123**

Priority

- FR 2009000071 W 20090123
- FR 0800344 A 20080123

Abstract (en)

[origin: WO2009112686A2] The invention relates to a countermeasure method in an electronic component that uses a private-key asymmetric cryptography algorithm, and comprises generating (100) a protection parameter and calculating (104), using a primitive, an intermediate data from said protection parameter. The method further comprises the steps of splitting (110) the binary representation of the private key into a plurality of binary units, converting (112) each binary unit using the protection parameter and, for each converted binary unit, carrying out (114) an intermediate calculation using the primitive, and calculating (106-122) an output datum by combining (116) the intermediate data with the intermediate calculations (114).

IPC 8 full level

**G06F 7/72** (2006.01)

CPC (source: EP US)

**G06F 7/723** (2013.01 - EP US); **G06F 7/725** (2013.01 - EP US); **H04L 9/002** (2013.01 - EP US); **H04L 9/302** (2013.01 - EP US); **H04L 9/3066** (2013.01 - EP US); **G06F 2207/7219** (2013.01 - EP US)

Citation (search report)

See references of WO 2009112686A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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