

Title (en)
SECURITY METHOD FOR A CRYPTOGRAPHIC ELECTRONIC ASSEMBLY BASED ON MODULAR EXPONENTIATION AGAINST POWER ATTACKS

Title (de)
VERFAHREN ZUR SICHERUNG EINER AUF MODULARER POTENZIERUNG BASIERENDEN ELEKTRONISCHEN KRYPTOANLAGE GEGEN ANGRIFFE MITTELS LEISTUNGSANALYSE

Title (fr)
PROCEDE DE SECURISATION D'UN ENSEMBLE ELECTRONIQUE DE CRYPTOGRAPHIE A BASE D'EXPONENTIATION MODULAIRE CONTRE LES ATTAQUES PAR ANALYSE DE PUISSANCE

Publication
EP 1639447 A1 20060329 (FR)

Application
EP 00971508 A 20001026

Priority
• FR 0002978 W 20001026
• FR 9913507 A 19991028

Abstract (en)
[origin: WO0131436A1] The invention concerns a security method for an electronic assembly implementing a cryptographic computation process using a modular exponentiation of a quantity (x), said modular exponentiation utilising a secret exponent (d). The invention is characterised in that it consists in breaking down said secret exponent into a plurality of k unpredictable values (d_1, d_2, \dots, d_k) whereof the sum is equal to said secret exponent.

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G06F 7/72

IPC 8 full level
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CPC (source: EP US)
G06F 7/723 (2013.01 - EP US); **G06F 2207/7242** (2013.01 - EP US)

Citation (search report)
See references of WO 0131436A1

Citation (examination)
TSUTOMU ET AL: "Speeding Up Secret Computations with Insecure Auxiliary Devices", ADVANCES IN CRYPTOLOGY, PROCEEDINGS OF THE CONFERENCE ON THE THEORY AND APPLICATION OF CRYPTOGRAPHY, 21 August 1998 (1998-08-21) - 25 August 1988 (1988-08-25), Berlin, pages 497 - 506, XP000345652

Cited by
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