

Title (en)

SECURE METHOD FOR PERFORMING A MODULAR EXPONENTIATION OPERATION

Title (de)

GESICHERTES VERFAHREN ZUM REALISIEREN EINER MODULAREN POTENTIERUNGSOPERATION

Title (fr)

PROCEDE SECURISE DE REALISATION D'UNE OPERATION D'EXPONENTIATION MODULAIRE

Publication

**EP 1419434 A1 20040519 (FR)**

Application

**EP 02772476 A 20020731**

Priority

- FR 0202771 W 20020731
- FR 0110671 A 20010810

Abstract (en)

[origin: FR2828608A1] The encryption process produces an exponential operation of the type  $U=VW$  modulo  $X$  where  $U, V$  and  $W$  are whole numbers.  $W$  is formed as a masked parameter chosen randomly each execution period. The masking parameter is a fractional number.

IPC 1-7

**G06F 7/72**

IPC 8 full level

**G06F 7/72** (2006.01)

CPC (source: EP US)

**G06F 7/723** (2013.01 - EP US); **H04L 9/002** (2013.01 - EP US); **H04L 9/302** (2013.01 - EP US); **G06F 2207/7242** (2013.01 - EP US); **G06F 2207/7257** (2013.01 - EP US); **H04L 2209/04** (2013.01 - EP US)

Citation (search report)

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