

Title (en)

SET OF PARTICULAR KEYS FOR PROVING AUTHENTICITY OF AN ENTITY OR THE INTEGRITY OF A MESSAGE

Title (de)

SCHLÜSSELSATZ ZUM BEWEIS DER AUTHENTIZITÄT EINER EINHEIT ODER DER INTEGRITÄT EINER NACHRICHT

Title (fr)

JEUX DE CLES PARTICULIERS DESTINES A PROUVER L'AUTHENTICITE D'UNE ENTITE OU L'INTEGRITE D'UN MESSAGE

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Abstract (en)

[origin: WO0126278A1] The invention concerns a set of particular keys designed to prove the authenticity of an entity or the integrity of a message. The proof is established by a set of keys comprising: m (≥ 1) pairs of private Q_i and public $G_i = g_i^{<2>}$ values; a public module n consisting of the product of f (≥ 2) prime factors; an exponent $v=2^{<k>}$ ($k > 1$), linked by relationships of the type: $G_i \cdot Q_i^{<v>} \equiv 1 \pmod n$ or $G_i Q_i^{<v>} \pmod n$. The set of keys is produced such that: among the m numbers obtained by increasing Q_i or its inverse modulo n to modulo n square, $k-1$ times rank, at least one of them is different from $\mp g_i$; among the $2m$ equations: $x^{<2>} \equiv g_i \pmod n$, $x^{<2>} \equiv -g_i \pmod n$ at least one of them has solutions in x in the ring of the modulo n integers.

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