

Title (en)

Method of masking a digital datum, such as a biometric print, and use thereof for securing a security document

Title (de)

Verfahren zur Maskierung eines digitalen Datenelements wie etwa eines biometrischen Abdrucks und Verwendung dafür zur Sicherung eines Sicherheitsdokuments

Title (fr)

Procédé de masquage d'une donnée numérique, telle que par exemple une empreinte biométrique

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Application

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Abstract (en)

[origin: WO2005111915A2] The invention relates to a method of masking a plain datum  $b$  having  $n$  bits. The inventive method is characterised in that a masked datum  $m$  is produced using the following masking function:  $(I)$ , wherein  $p$  is a prime number,  $b_i$  is the bit at position  $i$  of plain datum  $b$ , and  $q_i$  is the prime number at position  $i$  in a set of prime numbers  $(q_1, \dots, q_n)$ . The invention also relates to a method of masking a biometric print, consisting in: determining a set of  $s$  real minutiae which are characteristic of the print; mixing and arranging the real minutiae with  $t$  false minutiae; and forming a mixed biometric datum  $b$  having  $n = s + t$  bits, such that, for any  $i$ :  $b_i = 1$  if position  $i$  corresponds to a real minutia, and  $b_i = 0$  if position  $i$  corresponds to a false minutia. The invention can be used to secure a security document such as a bank cheque.

IPC 8 full level

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