Title (en)
DEVICE AND METHOD FOR GENERATING A RANDOM BIT STRING

Title (de)
VORRICHTUNG UND VERFAHREN ZUR ERZEUGUNG VON ZUFALLSBITFOLGEN

Title (fr)
DISPOSITIF ET PROCÉDÉ POUR GÉNÉRER UNE CHAÎNE DE BITS ALÉATOIRE

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Application
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Abstract (en)
[origin: WO2008015603A1] The invention relates to generating a bit string based on the circumstances of a breakdown of a diode or a number of diodes (11, 21, 31, 41, 51). One or more diodes (11, 21, 31, 41, 51) are fed with a voltage exceeding a breakdown voltage of the diodes (11, 21, 31, 41, 51) connected to a diode breakdown processor (13, 23, 33, 43, 53), which detects the breakdown and optionally relevant circumstances such as an exact breakdown voltage, and generates a bit string based on the detection, which may be used as a unique identifier or as a secret key.

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