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(54) Title: AES CRYPTOGRAPHIC SYSTEM AND METHOD

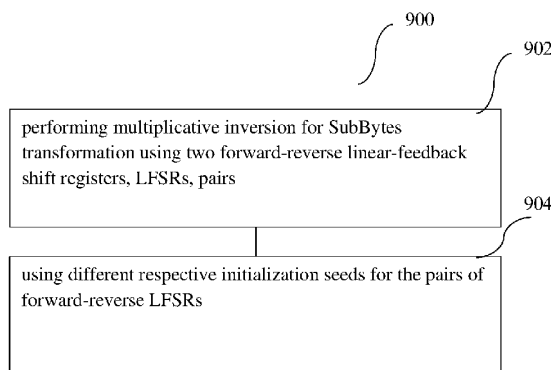


Figure 9

(57) Abstract: An Advanced Encryption Standard (AES) cryptographic system and a method of performing Advanced Encryption Standard (AES) cryptography. The method comprises the steps of performing multiplicative inversion for SubBytes transformation using two forward-reverse linear-feedback shift registers, LFSRs, pairs; and using different respective initialization seeds for the pairs of forward-reverse LFSRs.