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(54) Title: DATA PROTECTION WITH TRANSLATION

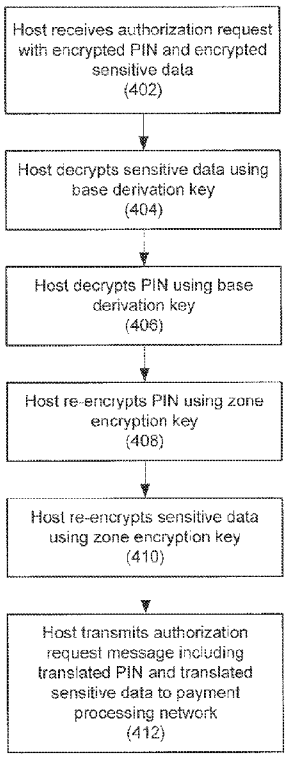


FIG. 4

(57) Abstract: Systems and methods are disclosed in which data associated with a transaction are protected with encryption. At an access device, a PIN associated with a payment account may be encrypted with a first key derived from an initial key of the access device and sensitive data associated with the payment account may be encrypted with a second key derived from the initial key. At a secure module associated with a host server encrypted sensitive data of an authorization request message may be decrypted. The secure module associated with the host server can re-encrypt the sensitive data using a zone encryption key associated with a payment processing network. A translated authorization request message including the re~encrypted sensitive data can be transmitted by the merchant server to the payment processing network.

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