PAYMENT METHODS AND SYSTEMS BASED ON A DECEPTIVE PIN OF A PAYMENT CARD

ABSTRACT

Embodiments provide a method of facilitating a transaction with a payment card of a cardholder. The method includes receiving a deceptive PIN comprising a set of characters in which one character is a deceptive character. The deceptive character is different than each of a set of actual characters of an actual PIN of the payment card. The method includes identifying the deceptive character and a position of the deceptive character among the set of characters of the deceptive PIN. The method includes determining a reconstructed PIN by replacing the deceptive character with a corresponding actual character at the position in the deceptive PIN. The actual character is determined based on a predefined mathematical expression and a predefined value for the predefined mathematical expression. The method includes authenticating the reconstructed PIN by matching the reconstructed PIN with the actual PIN. The method further includes facilitating the transaction upon successful authentication.

FIG. 8A