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(54) Title: SECURE REMOTE PAYMENT TRANSACTION PROCESSING

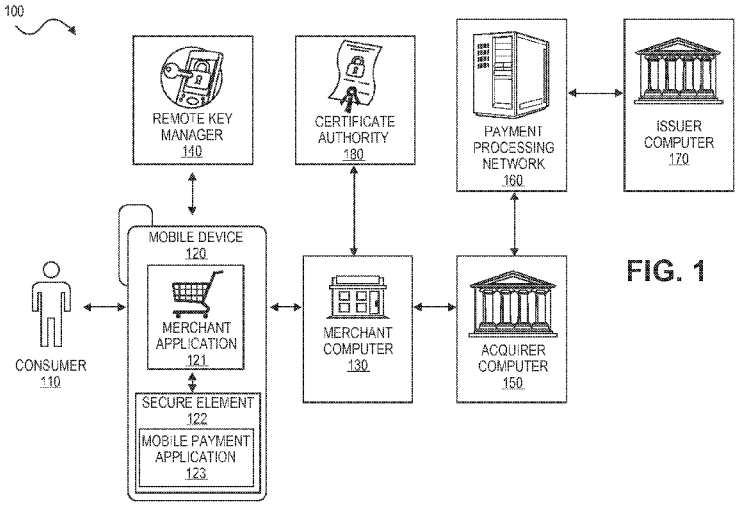


FIG. 1

(57) Abstract: Embodiments of the present invention are directed to methods, apparatuses, computer readable media and systems for securely processing remote transactions. One embodiment of the invention is directed to a method of processing a remote transaction initiated by a mobile device comprising a server computer receiving a payment request including encrypted payment information. The encrypted payment information being generated by a mobile payment application of the mobile device and being encrypted using a third party key. The method further comprises decrypting the encrypted payment information using the third party key, determining a transaction processor public key associated with the payment information, and re-encrypting the payment information using the transaction processor public key. The method further comprises sending a payment response including the re-encrypted payment information to a transaction processor. The transaction processor decrypts the re-encrypted payment information using a transaction processor private key and initiates a payment transaction.

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