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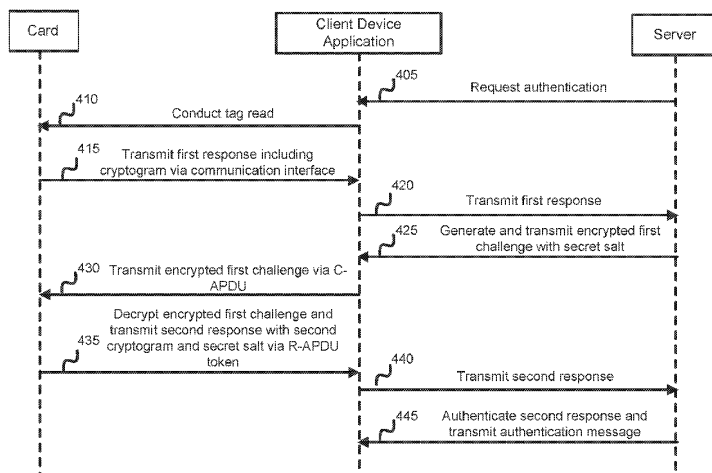
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(54) Title: SYSTEMS AND METHODS FOR SCALABLE CRYPTOGRAPHIC AUTHENTICATION OF CONTACTLESS CARDS



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FIG. 4

(57) Abstract: Systems and methods for authentication may include an authentication server. The authentication server may include a processor and a memory. The processor may be configured to transmit an authentication request. The processor may be configured to receive a first response that is responsive to the authentication request, the first response comprising a first cryptogram. The processor may be configured to generate a first challenge based on the first response. The processor may be configured to encrypt the first challenge with a symmetric key. The processor may be configured to transmit the first challenge receive a second response that is responsive to the first challenge, the second response comprising a second cryptogram. The processor may be configured to authenticate the second response.

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