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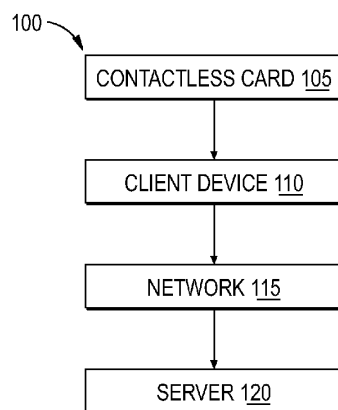


FIG. 1A

(57) Abstract: Example embodiments of systems and methods for data transmission between contactless cards and receiving devices are provided. In an embodiment, a contactless card may be configured to create a cryptogram based on a plurality of keys and a counter. The cryptogram may be transmitted to a receiving device. The contactless card may be configured to transmit a one-time password to the receiving device. The counter value may be adjusted each time the one-time password is generated, and the counter may be configured to increment in a non-monotonic sequence, the sequence associated with one or more cryptographic algorithms.



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