

SYSTEM AND METHOD FOR A BASEBAND NEARFIELD MAGNETIC STRIPE DATA TRANSMITTER

ABSTRACT

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A system for a baseband near field magnetic stripe data transmitter includes a mobile phone, a magnetic stripe transmission (MST) device and a payment button. The mobile phone includes a payment wallet application and is configured to transmit a stream of pulses including magnetic stripe data of a payment card. The MST device includes a driver and an inductor, and the MST device is configured to receive the stream of pulses from the mobile phone, to amplify and shape the received stream of pulses and to generate and emit high energy magnetic pulses including the magnetic stripe data of the payment card. The inductor is driven by a series of timed current pulses that result in a series of high energy magnetic pulses that resemble the fluctuating magnetic field created by a moving magnetic stripe. The payment button is programmed to be associated with a preselected payment card and activating of the payment button initiates the emission of high energy magnetic pulses including the magnetic stripe data of the preselected payment card.

20 (FIG. 1)