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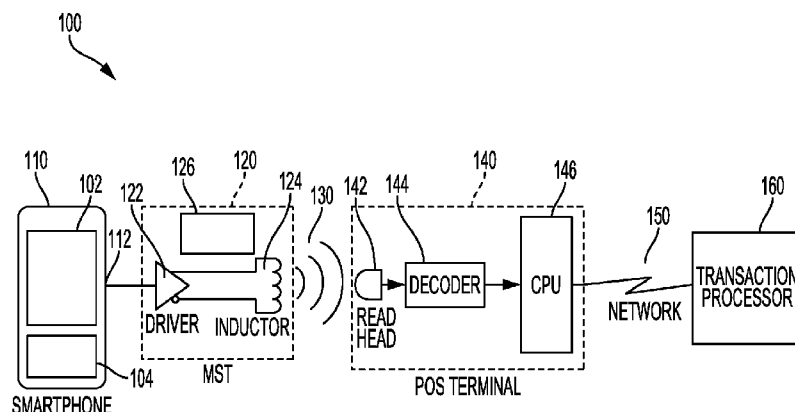


FIG. 1

(57) **Abstract:** 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 transmits a stream of pulses including magnetic stripe data of a payment card. The MST device includes a driver and an inductor, and 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.