



(51) International Patent Classification:

G06K 7/08 (2006.01) H04B 5/00 (2006.01)
G06Q 20/32 (2012.01)

(21) International Application Number:

PCT/US2015/015882

(22) International Filing Date:

13 February 2015 (13.02.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

14/181,947 17 February 2014 (17.02.2014) US

(71) Applicant: LOOPPAY, INC. [US/US]; 8 New England
Executive Park, Suite 220, Burlington, MA 01803 (US).

(72) Inventor: WALLNER, George; 17 N. Hibiscus Drive,
Miami Beach, FL 33139 (US).

(74) Agents: MICHAELIS, Brian et al.; Seyfarth Shaw LLP, 2
Seaport Lane, Suite 300, Boston, MA 02210-2028 (US).

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

(54) Title: BASEBAND NEARFIELD MAGNETIC STRIPE DATA TRANSMITTER

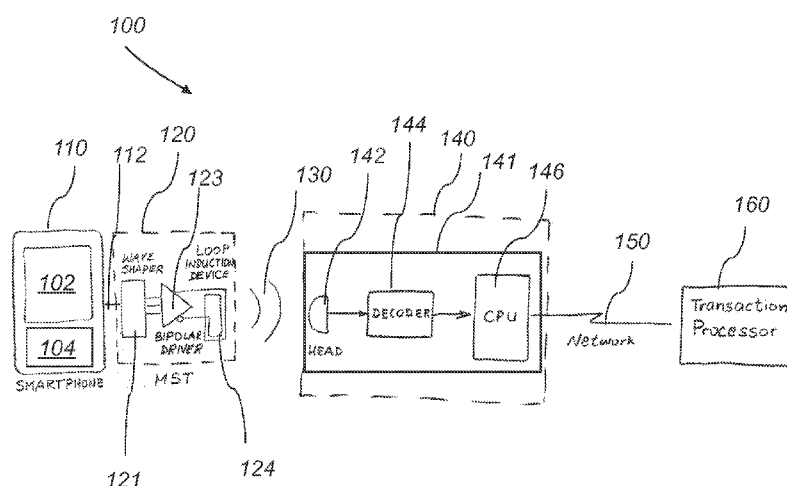


FIG. 4

(57) Abstract: A system for a baseband near field magnetic stripe data transmitter includes a mobile phone and a magnetic stripe transmission (MST) device. The mobile phone transmits a stream of pulses including magnetic stripe data of a payment card. The magnetic stripe transmission (MST) device includes a wave shaper, a driver and an induction device. The MST device receives the stream of pulses from the mobile phone, shapes and amplifies the received stream of pulses and generates and emits high energy magnetic pulses including the magnetic stripe data. The emitted high energy magnetic pulses are picked up remotely by a magnetic read head. The MST device shapes the stream of pulses to compensate for shielding, eddy current losses and limited inductance value of the magnetic read head.