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METHOD AND APPARATUS FOR AN ENHANCED RFID TAG
INTERROGATOR

ABSTRACT

[0032] An apparatus for an enhanced receiver for an RFID Tag Interrogator having a current transformer and an antenna, the enhanced receiver comprising: a zero cross detector for receiving an input current waveform from the current transformer and for producing a sampling signal based on the input current waveform; a phase shifter for phase shifting the sampling signal by about ninety degrees to produce a phase shifted sampling signal; a pulse generator for increasing time duration of each pulse of the phase shifted sampling signal to produce a control signal for controlling a chopper; the chopper for receiving and sampling a backscattered carrier signal from the antenna; and a bandpass filter for filtering away a carrier signal of the backscattered carrier signal.

[0033] FIG.2 accompanies the abstract.



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