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(54) **METHOD, SYSTEM AND APPARATUS FOR CALIBRATING A PULSE POSITION MODULATION (PPM) DECODER TO A PPM SIGNAL**

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(58) **Field of Search** 375/239, 316, 375/340; 370/205, 213; 329/313; 340/825.57–825.67, 10.1–10.3

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(57) **ABSTRACT**

A radio frequency identification (RFID) tag device having a pulse position modulation (PPM) decoder circuit which calculates a relative frequency relationship between an internal oscillator of the RFID tag device and an external PPM source such as a RFID tag reader. The PPM decoder circuit is calibrated to the difference between the external PPM frequency source (i.e., RFID tag reader) and the internal clock-oscillator of the RFID tag device, which is performed in a single measurement during one calibration symbol period.

11 Claims, 8 Drawing Sheets

