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(54) **INDUCTIVELY TUNABLE ANTENNA FOR A RADIO FREQUENCY IDENTIFICATION TAG**

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(57) **ABSTRACT**

A radio frequency identification tag having a step-tunable inductor for tuning a parallel resonant antenna circuit of the radio frequency identification tag to a desired frequency. The step-tunable inductor comprises a plurality of branches in which each branch is adapted for adjusting the step-tunable inductor to a desired inductance value for resonating the parallel antenna circuit to a carrier frequency of a tag interrogator/reader.

33 Claims, 14 Drawing Sheets

