

RADIO FREQUENCY TRANSPONDER SYSTEM

Abstract

A radio frequency transponder, including: a substrate; and at least one planar antenna on said substrate, said antenna having a shape determining a corresponding resonant frequency of said antenna; wherein said antenna causes a phase difference between backscattered signals generated in response to excitation of said antenna by orthogonally polarised interrogation signals at said resonant frequency, and said phase difference represents a code of said antenna.

Figure 1