

Title (en)

A METHOD AND DEVICE FOR IDENTIFICATION PURPOSE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR IDENTIFIKATION VON ZWECKEN

Title (fr)

PROCÉDÉ ET DISPOSITIF À DES FINS D' IDENTIFICATION

Publication

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Application

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Abstract (en)

[origin: WO2011019311A1] A device for identification of an object, comprising a scattering magnetic element (12, 22, 32) attached to the object. The scattering magnetic element has a permeability, which is dependent on a magnetic field exposed to the magnetic element. Moreover, there is a source (13, 14, 15; 25; 35) of an alternating magnetic field for exposure of said scattering magnetic element. A microwave transmitter (16) exposes the scattering magnetic element for microwaves and a microwave receiver (17) receives microwaves scattered or reflected from the scattering magnetic element and modulated by the alternating magnetic field. The source of an alternating magnetic field is arranged on-board of the object and is powered by a battery. In an embodiment, the source of an alternating magnetic field comprises an LC- circuit having a resonance frequency and wherein the scattering magnetic element is arranged adjacent a symmetry axis of a L-member of the LC-circuit. In another embodiment, the object comprises an oscillator, the output of which is connected to the ends of the scattering magnetic element for passing an alternating current through the magnetic element. The scattering magnetic element is of a magnetic material, such as an amorphous or nano- crystalline magnetic wire, having a length corresponding to half the wavelength of the microwaves.

IPC 8 full level

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