

Title (en)  
MINIATURE TRANSPONDER AND IDENTIFICATION SYSTEM INCLUDING SAID TRANSPONDER AND A SUITABLE READER

Title (de)  
MINIATUR-TRANSPONDER UND DEN TRANSPONDER UND EINEN GEEIGNETEN LESER ENTHALTENDES IDENTIFIKATIONSSYSTEM

Title (fr)  
TRANSPONDEUR MINIATURE ET SYSTEME D'IDENTIFICATION COMPORTANT UN TEL TRANSPONDEUR ET UN LECTEUR ADAPTE

Publication  
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Application  
**EP 07847432 A 20071127**

Priority

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Abstract (en)  
[origin: WO2008065127A2] The transponder comprises a conductive wire coil that is coiled onto a ferrite generally cylindrical bar (1) and connected to a radio frequency wave identification integrated circuit (3). The coil (2) is produced as a single layer of non-contiguous spires, with a non-insulated wire (21), and the integrated circuit (3) can function at a frequency greater than 10 MHz and it is fixed directly on the ferrite bar (1), for example on a flat section (11) formed at one end of the bar, so as to not jut out from the cylindrical volume determined by the bar and coil. The reader comprises a transmission antenna (5) formed by a flat winding and a receiving antenna (6) comprising at least two sets (61, 62) of wire that are arranged in flat spirals, wherein each set comprises two flat spirals (61a, 61b) wound in opposite directions. The invention is used for radio wave identification systems, notably for laboratory animals.

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