

Title (en)  
BATTERY-LESS TRANSPONDER CIRCUIT

Title (de)  
BATTERIELOSE TRANSPONDERSCHALTUNG

Title (fr)  
CIRCUIT DE TRANSPONDEUR SANS PILE

Publication  
**EP 1097438 A1 20010509 (EN)**

Application  
**EP 99933028 A 19990713**

Priority  
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Abstract (en)  
[origin: WO0004520A1] A battery-less transponder circuit for use in an Electronic Article Surveillance tag is disclosed. The transponder is comprised of first and second resonant circuits which are electrically coupled across a common component and yet resonate at different frequencies. The first resonant circuit ideally comprises an inductor, a capacitor, and a diode, and the second resonant circuit consists of only an inductor which is mutually coupled to the inductor of the first resonant circuit but is connected across the diode of the first resonant circuit. This connection has the effect of giving rise to a second resonant circuit which is both electrically and magnetically coupled to the first resonant circuit. An extremely inexpensive yet effective transponder circuit results.

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