CLAIMS

1. A magnetic field antenna for a radio frequency transponder, said antenna comprising a flat base (4) with a longitudinal edge (2), an antenna (14) for receiving via electromagnetic coupling on the base, said edge being intended to be parallel to a binding of the booklet, said antenna comprising parallel and perpendicular coils that extend respectively parallel and perpendicular to the longitudinal edge (2),

characterized in that said parallel coils have close-together inter-coil spacing (ES) with respect to the inter-coil spacing (EL) of the perpendicular coils, said parallel coils being located at least in a region (7) substantially located on a midline (5) of the base, said midline being perpendicular to the longitudinal edge (2).

2. A magnetic field antenna according to any one of the preceding claims, characterized in that said edge (2) is adjacent to a binding of a booklet.

3. A magnetic field antenna according to any one of the preceding claims, characterized in that the perpendicular coils have an inter-coil spacing (EL) ranging from 0.5 to 2mm.

4. A magnetic field antenna according to any one of the preceding claims, characterized in that the parallel coils have an inter-coil spacing (ES) ranging from 0.1 to 0.5mm.

5. A magnetic field antenna according to any one of the preceding claims, characterized in that the antenna wire has a diameter ranging from 50 to 150µm.

6. A magnetic field antenna according to any one of the preceding claims, characterized in that the antenna consists of an inlaid wire.

7. A magnetic field antenna according to claim 1, characterized in that the parallel outer coil of said region (7) is located at a distance B from the longitudinal edge (2) which is greater than a distance A for the parallel outer coil portions located outside the region (7).

8. A portable electronic object including the magnetic field antenna according to one of the preceding claims.

9. A portable electronic object according to claim 8 composing a passport, a booklet, with the antenna being carried by a sheet or a booklet or passport cover.

Claims

1. An invention not claimed in any divisional application.