

Title (en)
MAGNETIC ANTENNA

Title (de)
MAGNETISCHE ANTENNE

Title (fr)
ANTENNE MAGNÉTIQUE

Publication
EP 1901394 B1 20160831 (EN)

Application
EP 06767954 A 20060706

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Abstract (en)
[origin: EP1901394A1] There is provided a magnetic antenna, suitable for use in an RFID tag and an RFID tag reader/writer, which operates stable even if brought close to a metallic object and suitable for mass-production. The magnetic antenna has a coil comprising a magnetic layer and a conductive layer provided on the magnetic layer via an insulating layer. Alternatively, the magnetic antenna has a plurality of coils each comprising a magnetic layer having a square or rectangular shape and arranged radially. One ends of the coils are connected in series or parallel to one another by the magnetic layers thereof such that the coils have the same polarity. An insulating layer is provided on one or both outer surface of the coils, and a conductive layer is provided on an outer surface of at least one of the insulating layers. The magnetic antenna is produced using an LTCC technology.

IPC 8 full level
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CPC (source: EP KR)
H01Q 1/2283 (2013.01 - EP); **H01Q 1/24** (2013.01 - KR); **H01Q 1/362** (2013.01 - EP); **H01Q 7/08** (2013.01 - EP KR)

Citation (examination)
EP 0778633 A1 19970611 - MURATA MANUFACTURING CO [JP]

Cited by
JP2013247436A; CN102651083A; US2015323695A1; CN105633583A; CN111313150A; EP2278661A4; CN108011193A; EP2811656A4; EP1944827A3

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