

Title (en)
Antenna device

Title (de)
Antennenvorrichtung

Title (fr)
Dispositif d'antenne

Publication
EP 0634807 B1 19980812 (DE)

Application
EP 94810334 A 19940606

Priority
CH 209493 A 19930713

Abstract (en)
[origin: EP0634807A1] The antenna device has an antenna wire loop which is intrinsically rotated twice, through 180 DEG in each case, to form two electrically outer partial loops (1, 3) and one electrically central partial loop (2). One of the two electrically outer partial loops (3) is arranged geometrically between the electrically central partial loop (2) and the other electrically outer partial loop (1). An impedance element (11) is connected between two connection points (9, 10) which are arranged at the input and output of the geometrically central partial loop. The antenna device according to the invention has a highly matched characteristic and, if its parameters at the resonant frequency of the labels to be detected are suitably selected, acts like an antenna having only approximately two to two and a half partial loops. <IMAGE>

IPC 1-7
H01Q 7/04; **G08B 13/24**

IPC 8 full level
G08B 13/24 (2006.01); **H01Q 7/04** (2006.01)

CPC (source: EP US)
G08B 13/2474 (2013.01 - EP US); **G08B 13/2477** (2013.01 - EP US); **H01Q 7/04** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0634807 A1 19950118; **EP 0634807 B1 19980812**; AT E169776 T1 19980815; DE 59406653 D1 19980917; ES 2122209 T3 19981216; JP 3606603 B2 20050105; JP H07154130 A 19950616; US 5663738 A 19970902

DOCDB simple family (application)
EP 94810334 A 19940606; AT 94810334 T 19940606; DE 59406653 T 19940606; ES 94810334 T 19940606; JP 14953694 A 19940630; US 64309796 A 19960502