

Title (en)
MULTIPLE LOOP ANTENNA

Title (de)
MEHRFACH-SCHLEIFENANTENNE

Title (fr)
ANTENNE A BOUCLES MULTIPLES

Publication
EP 1138098 A4 20050126 (EN)

Application
EP 98960188 A 19981112

Priority
US 9824182 W 19981112

Abstract (en)
[origin: CA2350217A1] A multiple loop antenna (70) is provided which may be connected to either a transmit circuit, a receive circuit, or a transmit/receive circuit (80). When powered by a transmit circuit (60), the antenna (70) generates radio frequency magnetic fields in an area or zone proximate to the antenna, but which are substantially canceled at a distance approximately one wavelength and more from the antenna (70), thereby defining a surveillance zone proximate to the antenna (70). The loop antenna (70) includes a first, upper loop (36) and a second, lower loop (38). The upper (36) and lower (38) loops lie in separate, spaced, parallel planes and are preferably disposed at a fixed angle with respect to the surveillance zone.

IPC 1-7
H01Q 11/12; **H01Q 21/00**; **G01R 21/00**; **G08B 13/14**

IPC 8 full level
H01Q 21/24 (2006.01); **H01Q 7/00** (2006.01); **H01Q 21/29** (2006.01); **H04B 5/48** (2024.01)

CPC (source: EP KR)
G08B 13/2474 (2013.01 - EP); **H01Q 7/00** (2013.01 - KR)

Citation (search report)

- [X] US 4135184 A 19790116 - PRUZICK RONALD
- [X] US 3577136 A 19710504 - WOLF JOHN E
- See also references of WO 0030214A1

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

DOCDB simple family (publication)
CA 2350217 A1 20000525; CA 2350217 C 20060404; CN 1123089 C 20031001; CN 1322391 A 20011114; EP 1138098 A1 20011004; EP 1138098 A4 20050126; IL 142387 A0 20020310; IL 142387 A 20040620; JP 2002530910 A 20020917; KR 100605341 B1 20060728; KR 20010106513 A 20011129

DOCDB simple family (application)
CA 2350217 A 19981112; CN 98814304 A 19981112; EP 98960188 A 19981112; IL 14238798 A 19981112; JP 2000583121 A 19981112; KR 20017004544 A 20010410