

Title (en)

REACTANCE BUFFERED LOOP ANTENNA AND METHOD FOR MAKING THE SAME

Publication

EP 0454694 A4 19920603 (EN)

Application

EP 90901381 A 19891220

Priority

- US 8905684 W 19891220
- US 29927689 A 19890123

Abstract (en)

[origin: WO9008404A1] A reactance buffer (218) maintains a substantially constant resonant frequency for an adjustable size loop antenna (200) having first (202) and second (204) antenna segments. Each segment has first (206, 208) and second (212, 214) ends, the first ends (206, 208) being coupled to a receiver, and the second ends (212, 214) providing loop size adjustment. The reactance buffer (218) comprises a reactance buffer input (206) coupled to the second end of the first (202) antenna segment. A plurality of taps (T1-T7) are linearly disposed along an integrated structure, the structure presenting a substantially flat surface, and having a predetermined length between the outermost taps corresponding to the loop antenna size adjustment required. The taps (T1-T7) provide selectable reactance buffer outputs for coupling to the second end of the second (204) antenna segment. A plurality of reactance elements (302, ..., 320) couple the reactance buffer input (206) to each of the plurality of taps (T1-T7) and provide a substantially constant reactance measured between the reactance buffer input (206) and each of the plurality of taps (T1-T7).

IPC 1-7

H01Q 7/02

IPC 8 full level

H01Q 1/04 (2006.01); **H01Q 1/27** (2006.01); **H01Q 1/44** (2006.01); **H01Q 7/02** (2006.01); **H04B 1/08** (2006.01)

IPC 8 main group level

H01Q (2006.01)

CPC (source: EP KR)

H01Q 1/273 (2013.01 - EP); **H01Q 7/02** (2013.01 - EP KR)

Citation (search report)

See references of WO 9008404A1

Cited by

CN112993534A

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI LU NL

DOCDB simple family (publication)

WO 9008404 A1 19900726; AT E121225 T1 19950415; CA 2004365 A1 19900723; CA 2004365 C 19940503; DE 68922221 D1 19950518; DE 68922221 T2 19951109; DK 136291 A 19910716; DK 136291 D0 19910716; EP 0454694 A1 19911106; EP 0454694 A4 19920603; EP 0454694 B1 19950412; ES 2070311 T3 19950601; FI 913520 A0 19910723; JP 2588063 B2 19970305; JP H04504491 A 19920806; KR 910700550 A 19910315; KR 930008833 B1 19930915; MY 104488 A 19940430

DOCDB simple family (application)

US 8905684 W 19891220; AT 90901381 T 19891220; CA 2004365 A 19891201; DE 68922221 T 19891220; DK 136291 A 19910716; EP 90901381 A 19891220; ES 90901381 T 19891220; FI 913520 A 19910723; JP 50223690 A 19891220; KR 900702105 A 19900922; MY PI19891703 A 19891205