

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)

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CPC (source: EP KR)

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