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**Josypenko**

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(54) **CAPACITIVELY LOADED QUADRIFILAR HELIX ANTENNA**

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(57) **ABSTRACT**

A quadrifilar helix antenna is provided having a feedpoint for the antenna connecting to individual helical antenna elements. Each antenna element comprises a normal helix element with a plurality of series capacitors inserted along the element length with a maximum capacitor value at a feed end and a minimum capacitor value at a remote or unfed end.

Again, the element is not simply a series of connected capacitors—if it were it would not radiate. The element is a normal element, which is inductive, which has had capacitors inserted along its length.

**13 Claims, 9 Drawing Sheets**

