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(54) **PHYSICALLY SMALL SPIRAL ANTENNA**

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H01Q 19/10 (2006.01)

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(58) **Field of Classification Search** 343/793-823, 343/895

See application file for complete search history.

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(57) **ABSTRACT**

An improved dipole antenna having unbalanced radio frequency current in spiral radiating elements operating on a plurality of resonant frequencies providing a wide range of impedance matching to a device feeding radio frequency energy to said antenna. Said dipole antenna is also configured with parasitic spiral elements to provide increased operational performance. Each said spiral radiating element electrical parameter enabling said element to be operated alone. Said dipole antenna operates on any portion of the radio frequency spectrum.

20 Claims, 18 Drawing Sheets

