
Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application:

Listing of Claims:

1. (Currently Amended) ~~A multimode antenna structure for transmitting and receiving electromagnetic signals in a communications device, the communications device including circuitry for processing signals communicated to and from the antenna structure, the~~ An antenna structure configured for optimal operation that operates in a given frequency range, the antenna structure comprising:

- ~~a plurality of antenna ports operatively coupled to the circuitry;~~
- ~~a plurality of antenna elements, wherein each operatively of the plurality of antenna elements is coupled to a different one of the plurality of antenna ports, and wherein each of said the plurality of antenna elements being configured to have an electrical length selected to provide optimal operation within~~ operates in said the given frequency range; and
- ~~one or more connecting elements electrically connecting coupling the plurality of antenna elements, such that wherein electrical currents on one of the plurality of antenna elements flow to a connected neighboring one of the plurality of the antenna elements and generally bypassing one of the plurality of antenna ports coupled to the neighboring one of the plurality of antenna elements, wherein the electrical currents flowing through the one of the plurality of antenna elements and the neighboring one of the plurality of antenna elements being generally equal in have a magnitude, such that an a first antenna mode excited by one of the plurality of antenna ports is generally substantially electrically isolated from a second antenna mode excited by another one of the plurality of antenna ports at a given desired signal frequency range without the use coupling of a decoupling network connected to said the plurality of antenna ports, and wherein the antenna structure generates diverse antenna patterns.~~

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2. (New) The antenna structure of claim 1, wherein the frequency range of the antenna structure is tunable.

 3. (New). The antenna structure of claim 1, wherein the one or more elements comprise a tunable element for changing the frequency range of the antenna structure.

 4. (New) The antenna structure of claim 3, wherein the tunable element alters a delay, a phase, or an impedance of an electrical coupling between antenna elements.

 5. (New) The antenna structure of claim 1, wherein an effective electrical length of the plurality of antenna elements is adjustable to change the frequency range of the antenna structure.

 6. (New) The antenna structure of claim 1, wherein the antenna structure comprises a multimode antenna structure for transmitting and receiving electromagnetic signals.

 7. (New) The antenna structure of claim 1, wherein the antenna structure is used in a communication device comprising circuitry for processing signals communicated to and from the antenna structure.

 8. (New) The antenna structure of claim 1, wherein the antenna structure is used in a communication device comprising circuitry for processing signals communicated to and from the antenna structure.

 9. (New) The antenna structure of claim 1 wherein the one or more elements are electrically connected to the antenna elements.

10. (New) The antenna structure of claim 1 wherein the one or more elements electrically connect the plurality of antenna elements at a location on each antenna element that is spaced apart from one of the plurality of antenna ports coupled thereto to form a single radiating structure.

11. (New) The antenna structure of claim 1, wherein each of the plurality of antenna elements has a tortuous configuration to provide an electrical length that operates in the frequency range.

12. (New) The antenna structure of claim 11, wherein the tortuous configuration comprises a meandered configuration, helical coils, or loops.

13. (New) The antenna structure of claim 1, wherein each of the plurality of antenna elements comprise a slot to provide the electrical length.

14. (New) The antenna structure of claim 1, wherein the plurality of antenna elements and the one or more elements comprise a printed circuit.

15. (New) The antenna structure of claim 1, wherein the antenna structure is used in a communications device, and wherein the communications device comprises one of a cellular handset, personal digital assistant, wireless networking device, or a data card for a personal computer.

16. (New) An antenna structure, comprising:

a plurality of antenna ports;

a plurality of antenna elements, wherein each of the plurality of antenna elements is coupled to a different one of the plurality of antenna ports, and wherein each of the plurality of antenna elements operates in the frequency range; and

one or more elements electrically coupling the plurality of antenna elements, wherein electrical currents on one of the plurality of antenna elements flow to a neighboring one of the plurality of the antenna elements, wherein the electrical currents have a magnitude such that a first antenna mode excited by one of the plurality of antenna ports is substantially electrically isolated from a second antenna mode excited by another one of the plurality of antenna ports at a desired signal frequency range without coupling a decoupling network to the plurality of antenna ports.

17. (New) The antenna structure of claim 16, wherein the antenna structure generates diverse antenna patterns.

18. (New) The antenna structure of claim 16, wherein the electrical currents bypassing one of the plurality of antenna ports coupled to the neighboring one of the plurality of antenna elements.

19. (New) An antenna structure, comprising:

a plurality of antenna ports;

a plurality of antenna elements, wherein each of the plurality of antenna elements is coupled to a different one of the plurality of antenna ports, and wherein each of the plurality of antenna elements operates in a frequency range; and

one or more elements coupling the plurality of antenna elements, wherein electrical currents on one of the plurality of antenna elements flow to a neighboring one of the plurality of the antenna elements, wherein the electrical currents have a magnitude such that a first antenna mode excited by one of the plurality of antenna ports is substantially decoupled from a second antenna mode excited by another one of the plurality of antenna ports at a desired signal frequency range without use of a decoupling network.

20. (New) The antenna structure of claim 19, wherein the one or more elements are electrically coupled to the plurality of antenna elements.