
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) An antenna structure that operates in a frequency range, the 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 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 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, and wherein the antenna structure generates diverse antenna patterns.

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

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

7. (Previously Presented) 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. (Previously Presented) 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. (Previously Presented) The antenna structure of claim 1 wherein the one or more elements are electrically connected to the antenna elements.

10. (Previously Presented) 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. (Previously Presented) 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. (Previously Presented) The antenna structure of claim 11, wherein the tortuous configuration

comprises a meandered configuration, helical coils, or loops.

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

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

15. (Previously Presented) 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. (Currently Amended) 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 a~~ 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. (Previously Presented) The antenna structure of claim 16, wherein the antenna structure generates diverse antenna patterns.

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