
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 ~~comprising~~including circuitry for processing signals communicated to and from the multimode antenna structure, the multimode antenna structure comprising:
 - a plurality of antenna ports for coupling to the circuitry;
 - a plurality of antenna elements, each operatively coupled to a different one of the antenna ports; and
 - a plurality of ~~connecting-coupling elements, each for~~ electrically ~~connecting-coupling to~~ neighboring antenna elements of the plurality of antenna elements such that the plurality of antenna elements and the ~~connecting~~ plurality of coupling elements are arranged about ~~the a~~ periphery of the multimode antenna structure and form a single radiating structure, wherein electrical currents on one antenna element of the plurality of antenna elements flow to ~~connected~~ the neighboring antenna elements and ~~generally-substantially~~ bypass the plurality of antenna ports coupled to the neighboring antenna elements such that an antenna mode excited by one of the plurality of antenna ports is ~~generally-substantially~~ electrically isolated from a mode excited by another one of the plurality of antenna ports at a given desired signal frequency range without coupling a decoupling network to the plurality of antenna ports, and the multimode antenna structure generates diverse antenna patterns.
2. (Original) The multimode antenna structure of claim 1 wherein the plurality of antenna elements comprises three antenna elements and the plurality of connecting elements comprises three connecting elements.

-
3. (Currently Amended) The multimode antenna structure of claim 1 wherein the plurality of antenna elements are balanced by a common counterpoise.
 4. (Original) The multimode antenna structure of claim 3 wherein the common counterpoise comprises a hollow conductive cylinder.
 5. (Currently Amended) The multimode antenna structure of claim 4, wherein each of the plurality of antenna ports is coupled to a cable extending through the hollow conductive cylinder.
 6. (Currently Amended) The multimode antenna structure of claim 5 further ~~including~~ comprising a choke comprising ~~a~~ the hollow conductive cylinder through which each of the cables pass.
 7. (Currently Amended) The multimode antenna structure of claim 6 wherein each of the cables is a coaxial cable having a cable shield electrically ~~connected~~ coupled to the choke at a common point.
 8. (Currently Amended) The multimode antenna structure of claim 1 wherein each of the plurality of ~~connecting-coupling~~ elements has a tortuous configuration to provide a given electrical length.
 9. (Original) The multimode antenna structure of claim 1 wherein the multimode antenna structure is constructed from a flexible printed circuit.
 10. (Original) The multimode antenna structure of claim 9 wherein the flexible printed circuit is wrapped onto a cylinder and packaged in a cylindrical plastic enclosure.

11. (Currently Amended) The multimode antenna structure of claim 1 further comprising an inductive trace coupled to each antenna element of the plurality of antenna elements at a location on the plurality of antenna elements spaced apart from a respective ~~feed point~~antenna port of the plurality of antenna ports.

12. (Currently Amended) The multimode antenna structure of claim 1 wherein the multimode antenna structure is formed from a sheet of metal, ~~and includes~~ comprising a plurality of coplanar tabs, each connected to a respective antenna element of the plurality of antenna elements, the plurality of coplanar tabs being configured to be secured to an edge of a printed circuit board assembly.

13. (Currently Amended) The multimode antenna structure of claim 1 wherein each antenna element of the plurality of antenna elements ~~has~~ comprises two branches of different lengths to create resonance at two different frequencies.

14. (Currently Amended) A multimode antenna structure for transmitting and receiving electromagnetic signals in a communications device, the communications device comprising including circuitry for processing signals communicated to and from the multimode antenna structure, the multimode antenna structure comprising:

a plurality of antenna ports for coupling to the circuitry;

a plurality of antenna elements, each operatively coupled to a different one of the antenna ports, the plurality of antenna elements arranged around ~~the a~~ periphery of the multimode antenna structure; and

~~a connecting-coupling element electrically connecting-coupling the plurality of antenna elements to a common point to form a single radiating structure, wherein electrical currents on one antenna element of the plurality of antenna elements flow to another antenna element of the plurality of antenna elements and generally-substantially bypass an antenna port of the plurality of antenna ports coupled to the another antenna element such that an antenna mode excited by one the antenna port of the plurality of antenna ports is generally-substantially electrically isolated from a mode excited by another antenna port of the plurality of antenna ports at a given desired signal frequency range without coupling a decoupling network to the plurality of antenna ports, and the antenna structure generates diverse antenna patterns.~~

15. (Original) The multimode antenna structure of claim 14 wherein the plurality of antenna elements comprises four antenna elements.

16. (Currently Amended) The multimode antenna structure of claim 14 wherein the plurality of antenna elements are balanced by a common counterpoise.

17. (Original) The multimode antenna structure of claim 16 wherein the common counterpoise comprises a hollow conductive cylinder.

18. (Currently Amended) The multimode antenna structure of claim 17 wherein each antenna port of the plurality of antenna ports is coupled to a cable extending through the hollow conductive cylinder.

19. (Currently Amended) The multimode antenna structure of claim 18 further comprising a choke

comprising ~~a the~~ hollow conductive cylinder through which each of the cables pass.

20. (Currently Amended) The multimode antenna structure of claim 19 wherein each of the cables ~~is comprises~~ a coaxial cable having a cable shield electrically ~~connected~~ coupled to the choke at ~~a the~~ common point.

21. (Currently Amended) The multimode antenna structure of claim 14 further comprising an inductive trace coupled to each antenna element of the plurality of antenna elements at a location on the plurality of antenna elements spaced apart from a respective ~~feed point~~ antenna port of the plurality of antenna ports.

22. (Currently Amended) The multimode antenna structure of claim 14 wherein the multimode antenna structure is formed from a sheet of metal.

23. (Currently Amended) The multimode antenna structure of claim 14 wherein the plurality of antenna elements comprises the a plurality of monopole antenna elements ~~are~~ constructed from a flexible printed circuit.

24. (Currently Amended) The multimode antenna structure of claim 23 wherein the ~~connecting-coupling~~ element is soldered to the flexible printed circuit.

25. (Currently Amended) The multimode antenna structure of claim 14 wherein each antenna element of the plurality of antenna elements has two branches of different lengths to create resonance at two different frequencies.

26. (Currently Amended) The multimode antenna structure of claim 14 wherein the ~~connecting-coupling~~ element has a spoke-like shape.

27. (Currently Amended) An ~~multimode~~ antenna structure for transmitting and receiving electromagnetic signals in a communications device, the communications device ~~including comprising~~ circuitry for processing signals communicated to and from the antenna structure, the antenna structure comprising:

a plurality of antenna ports for coupling to the circuitry;

a plurality of antenna elements, each operatively coupled to a different one of the ~~plurality of antenna ports~~, each antenna element ~~of the plurality of antenna ports including comprising~~ upper and lower planar sections that are ~~generally-substantially~~ parallel and spaced apart and a side section ~~connecting-coupling~~ the upper and lower sections; and

one or more ~~connecting-coupling~~ elements, each electrically ~~connecting-coupling to~~ neighboring antenna elements ~~of the plurality of antenna elements~~ at one of the planar sections such that the ~~plurality of antenna elements~~ to form a single-radiating structure, wherein electrical currents on one antenna element ~~of the plurality of antenna elements~~ flow to a ~~connected~~ neighboring antenna element ~~of the plurality of antenna elements~~ and ~~generally-substantially~~ bypass ~~one antenna port of the plurality of antenna ports~~ coupled to the neighboring antenna element, ~~wherein~~ the electrical currents flowing through the one antenna element and the neighboring antenna element ~~being-generally-equal-in~~ ~~have a magnitude~~; such that an antenna mode excited by ~~the~~ one antenna port is ~~generally-substantially~~ electrically isolated from a mode excited by another antenna port ~~of the plurality of antenna ports~~ at a given desired signal frequency range ~~without coupling a decoupling network to the plurality of antenna ports~~, and the antenna structure generates diverse antenna patterns.

28. (Currently Amended) The ~~multimode~~ antenna structure of claim 27 wherein each of the ~~plurality of one or more coupling connecting~~ elements has a tortuous configuration to provide a given electrical length.

29. (Currently Amended) The ~~multimode~~ antenna structure of claim 27 wherein each of the plurality of antenna elements has a tortuous configuration to provide a given electrical length.

30. (Currently Amended) The ~~multimode~~-antenna structure of claim 27 wherein the ~~multimode~~-antenna structure is constructed from a sheet of metal.

31. (Currently Amended) The ~~multimode~~-antenna structure of claim 27 wherein the one or more coupling elements comprise two coupling ~~connecting~~-elements electrically ~~connect~~ coupling to the neighboring antenna elements.

32. (Currently Amended) The ~~multimode~~-antenna structure of claim 27 wherein the lower planar section of each antenna element of the plurality of antenna elements is ~~connected~~ coupled to a printed circuit board assembly.