communication in a discreet private manner without the need for the patient to wear a patch.

SUMMARY

[0005] In one aspect of the present invention, a mobile device for detecting an electrical signal generated by an ingestible event marker is provided. The mobile device comprises a detection subsystem to receive an electrical signal generated by an ingestible event marker from a detection arrangement; a ~~A~~ processing subsystem ~~is~~ coupled to the detection subsystem to decode the electrical signal; an application software program comprising a series of computer executable instructions executable by the processing subsystem; and a ~~A~~ radio subsystem ~~is~~ configured to transmit the decoded electrical signal to a wireless node; wherein when the computer executable instructions are executed by the processing subsystem causes the radio subsystem to initiate communication with the wireless node.

[0005a] In another aspect of the present invention, a system for detecting an electrical signal generated by an ingestible event marker is described. The system comprises a mobile device; a detection arrangement to couple to the mobile device; a detection subsystem to receive an electrical signal generated by an ingestible event marker from the detection arrangement; a processing subsystem coupled to the detection subsystem to decode the electrical signal; an application software program comprising a series of computer executable instructions executable by the processing subsystem; and a radio subsystem configured to transmit the decoded electrical signal to a wireless node; wherein when the computer executable instructions are executed by the processing subsystem causes the radio subsystem to initiate communication with the wireless node.

[0005b] In yet another aspect of the present invention, a method of processing an electrical signal generated by an ingestible event marker is described. The method comprises receiving an electrical signal generated by an ingestible event marker at a mobile device; decoding the electrical signal received by the mobile device to extract information associated with the ingestible event marker; executing a series of computer executable instructions to cause a radio

subsystem to initiate communication with a wireless node; and transmitting the information to the wireless node.

FIGURES

[0006] FIG. 1 illustrates one aspect of a system comprising a mobile device for detecting an electrical signal generated by an ingestible event marker device.

[0007] FIG. 2 illustrates one aspect of the system shown in FIG. 1 comprising a mobile device for detecting an electrical signal generated by an ingestible event marker device.

[0008] FIG. 3A illustrates a side view of one aspect of a detection arrangement in the form of an earphone.

[0009] FIG. 3B illustrates a front view of one aspect of the detection arrangement shown in FIG. 3A.

[0010] FIG. 4 illustrates one aspect of a system comprising a detection arrangement in the form of earphones wiredly coupled to a mobile device for detecting an electrical signal generated by an ingestible event marker device.

[0011] FIG. 5 is a system diagram of one aspect of a mobile device for detecting an electrical signal generated by an ingestible event marker configured to couple to an external detection arrangement.

[0012] FIG. 6A is a diagram of one aspect of an earphone plug coupled to an electrode input circuit section of a detection subsystem of a mobile device for detecting an electrical signal generated by an ingestible event marker.

[0013] FIG. 6B is a diagram of one aspect of an electrode input circuit of the detection subsystem shown in FIG. 6A.