

wherein the rectifier is adapted to rectify the alternating electrical signal,

wherein the recharging cell is adapted to store charge in response to the rectified electrical signal, and

wherein the battery cell is adapted to recharge using the stored charge. 5

5. A portable unit for remote monitoring comprising:

a rechargeable battery;

wherein the rechargeable battery includes a transducer, a rectifier, a recharging cell and a battery cell, the transducer being coupled to the rectifier, the rectifier being coupled to the recharging cell, the recharging cell being coupled to the battery cell, 10

wherein the transducer is disposed proximately to and under the skin surface of the living being, 15

wherein the transducer is adapted to generate an alternating electrical signal in response to acoustic waves generated by an ambient environment,

wherein the rectifier is adapted to rectify the alternating electrical signal, 20

wherein the recharging cell is adapted to store charge in response to the rectified electrical signal, and

wherein the stored charge recharges the battery cell. 25

6. A portable unit for remote monitoring of a living being, the unit comprising:

a rechargeable battery;

wherein the rechargeable battery includes a transducer, a rectifier, a recharging cell and a battery cell, the transducer being coupled to the rectifier, the rectifier being coupled to the recharging cell, the recharging cell being coupled to the battery cell, 30

wherein the transducer is coupled to a human voice box, wherein the transducer is adapted to generate an alternating electrical signal in response to acoustic waves generated by the human voice box, 35

wherein the rectifier is adapted to rectify the alternating electrical signal, 40

wherein the recharging cell is adapted to store charge in response to the rectified electrical signal, and

wherein the stored charge recharges the battery cell.

7. A method for remotely monitoring a living being, comprising the steps of: 45

adapting a portable unit to be powered by a self-recharging battery, the portable unit providing at least one sensor;

self-recharging the self-recharging battery based on a physiological condition of the living being; 50

receiving, by the portable unit, information relating to a physical location and a biological parameter of the person; and

wirelessly communicating the information relating to the physical location and the biological parameter of the person from the portable unit to a central unit via a ground station. 55

8. A self-recharging battery, comprising:

a photocell disposed proximately to and under a skin surface of a person; 60

a recharging cell coupled to the photocell; and

a battery cell coupled to the recharging cell,

wherein the photocell is adapted to receive ambient light and is adapted to generate a potential difference across the recharging cell in response to receiving the ambient light, 65

wherein the recharging cell is adapted to store charge in response to the potential difference, and

wherein the battery cell is adapted to recharge using the stored charge.

9. A self-recharging battery, comprising:

a transducer disposed in a region of a living being with a substantial temperature gradient;

a recharging cell coupled to the transducer;

a battery cell coupled to the recharging cell,

wherein the transducer is adapted to generate a potential difference across the recharging cell in response to heat flow through the transducer,

wherein the recharging cell is adapted to store charge in response to the potential difference, and

wherein the battery cell is adapted to recharge using the stored charge.

10. The self-recharging battery according to claim 9, wherein the transducer is disposed proximately to and under the skin surface of the living being, and wherein the substantial temperature gradient is between an ambient environment and a region disposed proximately to and under the skin surface.

11. The self-recharging battery according to claim 9, wherein the transducer is disposed between a skin layer and a fat layer of the living being, and wherein the substantial temperature gradient is between the skin layer and the fat layer.

12. The self-recharging battery according to claim 9, wherein the transducer is disposed between a first body part and a second body part of the living being, and wherein the substantial temperature gradient is between the first body part and the second body part.

13. A self-recharging battery, comprising:

a transducer coupled to a pulsing blood vessel;

a rectifier coupled to the transducer;

a recharging cell coupled to the rectifier; and

a battery cell coupled to the recharging cell,

wherein the transducer is adapted to generate an alternating electrical signal in response to the pulsing blood vessel,

wherein the rectifier is adapted to rectify the alternating electrical signal,

wherein the recharging cell is adapted to store charge in response to the rectified electrical signal, and

wherein the battery cell is adapted to recharge using the stored charge.

14. A self-recharging battery, comprising:

a transducer coupled to a human voice box of a person;

a rectifier coupled to the transducer;

a recharging cell coupled to the rectifier; and

a battery cell coupled to the recharging cell,

wherein the transducer is adapted to generate an alternating electrical signal in response to acoustic waves generated by the human voice box,

wherein the rectifier is adapted to rectify the alternating electrical signal,

wherein the recharging cell is adapted to store charge in response to the rectified electrical signal, and

wherein the battery cell is adapted to recharge using the stored charge.

15. A self-recharging battery, comprising:

a transducer disposed proximately to and under a skin surface of a person;