CLAIMS

~~**What is claimed is:**~~

1.- A method for low power communication links between wireless devices, comprising:

establishing, by a first wireless device, a first ~~magnetic~~near ultra-low energy field (NULEF) communication link satisfying a threshold distance to a source wireless device through a human body;

establishing, by a second wireless device, a second ~~magnetic~~NULEF communication link satisfying the threshold distance to the source wireless device through the human body; ~~and~~

receiving, by the first wireless device via the first ~~magnetic~~NULEF communication link and the second wireless device via the second ~~magnetic~~NULEF communication link, communications from the source wireless device through the human body; and

wherein the first wireless device and the second wireless device do not retransmit communications between each other.

2. The method of claim 1, wherein the first wireless device and the second wireless device can communicate with each other independent of the source wireless device.

3. The method of claim 2, further ~~includes establishing, by the first wireless device, a third magnetic communication link with the second wireless device through the human body.~~comprising:

~~4. The method of claim 3, wherein the third magnetic communication link is a near ultra-low energy field (NULEF) communication link, a near field magnetic induction (NFMI) communication link, or a near field communication (NFC) link.~~

establishing, by the first wireless device, a third NULEF communication link with the second wireless device through the human body.

~~5~~4. The method of claim 2, wherein the first wireless device and the second

wireless device can communicate with each other via a Bluetooth communication link or Bluetooth Low Energy (BLE) communication link.

~~6. The method of claim 1, wherein the first magnetic communication link and second magnetic communication link are a near ultra-low energy field (NULEF) communication link, a near field magnetic induction (NFMI) communication link, or a near field communication (NFC) link.~~

~~7~~5. The method of claim 1, wherein the source wireless device can communicate with the first wireless device independent of the second wireless device.

~~8~~6. The method of claim 1, wherein the source wireless device can communicate with the first wireless device and the second wireless device at the same time.

~~9~~7. The method of claim 1, ~~wherein~~further comprising:

reestablishing, by the source wireless device ~~can attempt to reestablish a~~, a NULEF communication link with the first wireless device ~~and~~, the second wireless device, or both if ~~either wireless device loses connection to the source wireless device.~~

~~10. The method of claim 1, wherein~~ the first wireless device ~~and~~, the second wireless device ~~can independently attempt to reestablish a~~, or both lose connection to the source wireless device.

8. The method of claim 1, further comprising:

reestablishing, by the first wireless device, the second wireless device, or both, a NULEF communication link with the source wireless device if ~~either~~the first wireless device ~~loses~~, the second wireless device, or both lose connection to the source wireless device.

~~11.~~ 9. An apparatus for low power communication links between wireless devices, comprising:

a first wireless device comprising:

a first processor; and

a first memory communicatively coupled with the first processor and storing computer-readable code that, when executed by the first processor, ~~causing~~causes the first wireless device to:

~~establishing~~establish a first ~~magnetic~~near ultra-low energy field (NULEF) communication link satisfying a threshold distance to a source wireless device through a human body; and

~~receiving~~receive communications from the source wireless device via the first ~~magnetic~~NULEF communication link through the human body; and

a second wireless device comprising:

a second processor; and

a second memory communicatively coupled with the second processor and storing computer-readable code that, when executed by the second processor, ~~causing~~causes the second wireless device to:

~~establishing~~establish a second ~~magnetic~~NULEF communication link satisfying the threshold distance to the source wireless device through a human body;

~~receiving~~receive communications from the source wireless device via the second ~~magnetic~~NULEF communication link through the human body~~.~~; and

wherein the first wireless device and the second wireless device do not retransmit communications between each other.

~~12~~10. The apparatus of claim ~~11~~9, wherein the first wireless device and the second wireless device can communicate with each other independent of the source wireless device.

~~13~~11. The apparatus of claim ~~12~~10, wherein the first memory stores the computer-readable code that, when executed by the first processor, further ~~includes establishing~~causes the first wireless device to:

establish, by the first wireless device, a third ~~magnetic~~NULEF communication link with the second wireless device through the human body.

~~14. The apparatus of claim 13, wherein the third magnetic communication link is a near ultra-low energy field (NULEF) communication link, a near field magnetic induction (NFMI) communication link, or a near field communication (NFC) link.~~

~~15. The apparatus of claim 12~~12. The apparatus of claim 10, wherein the first wireless device and the second wireless device can communicate with each other via a Bluetooth communication link or Bluetooth Low Energy (BLE) communication link.

~~16~~13. The apparatus of claim ~~11, wherein the first magnetic communication link and second magnetic communication link are a near ultra-low energy field (NULEF) communication link, a near field magnetic induction (NFMI) communication link, or a near field communication (NFC) link.~~

~~17. The apparatus of claim 11~~9, wherein the source wireless device can communicate with the first wireless device independent of the second wireless device.

~~18~~14. The apparatus of claim ~~11~~9, wherein the source wireless device can communicate with the first wireless device and the second wireless device at the same time.

~~19~~15. The apparatus of claim ~~11~~9, wherein the ~~source wireless device can attempt~~ first memory stores the computer-readable code that, when executed by the first processor, further causes the first wireless device to~~-~~:

reestablish ~~a~~the first NULEF communication link with the ~~first wireless device and second~~source wireless device if ~~either~~the first wireless device loses connection to the source wireless device.

~~20~~16. The apparatus of claim ~~11~~9, wherein the ~~first~~second memory stores the computer-readable code that, when executed by the second processor, further causes the second wireless device ~~and second wireless device can independently attempt~~ to~~-~~:

reestablish ~~a~~the second NULEF communication link with the source wireless device if ~~either~~the second wireless device loses connection to the source wireless device.

~~21~~17. A non-transitory computer-readable medium comprising processor-executable program code configured to cause a processor of a first wireless device and second wireless device to:

~~establishing~~establish, by the first wireless device, a first ~~magnetic~~near ultra-low energy field (NULEF) communication link satisfying a threshold distance to a source wireless device through a human body;

~~establishing~~establish, by the second wireless device, a second ~~magnetic~~NULEF communication link satisfying the threshold distance to the source wireless device through the human body; ~~and~~

~~receiving~~receive, by the first wireless device via the first ~~magnetic~~NULEF communication link and the second wireless device via the second ~~magnetic~~NULEF communication link, communications from the source wireless device through the human body~~.~~; and

wherein the first wireless device and the second wireless device do not retransmit communications between each other.

~~22.~~ 18. An apparatus for low power communication links between wireless devices, comprising:

means for establishing, by a first wireless device, a first ~~magnetic~~near ultra-low energy field (NULEF) communication link satisfying a threshold distance to a source wireless device through a human body;

means for establishing, by a second wireless device, a second ~~magnetic~~NULEF communication link satisfying the threshold distance to the source wireless device through the human body; ~~and~~

means for receiving, by the first wireless device via the first ~~magnetic~~NULEF communication link and the second wireless device via the second ~~magnetic~~NULEF communication link, communications from the source wireless device through the human body; and

wherein the first wireless device and the second wireless device do not retransmit communications between each other.