CLAIMS

1. A firearm for providing inductive power to an accessory; the firearm comprising: an inductively powering rail operatively connected to one or more batteries, said inductively powering rail comprising a plurality of inductively powering rail slots, each inductively powering rail slot having a primary U-core, said accessory having secondary U-cores designed to mate with each primary U-core to provide an inductive power connection to said accessory, wherein the inductively powering rail has pins located within said inductively powering rail, wherein said accessory includes magnets, the pins being configured to magnetically couple the magnets to trigger a magnetic switch to indicate engagement of said accessory with said inductively powering rail.

2. The firearm of claim 1 wherein said inductively powering rail comprises a Printed Circuit Board (PCB) comprising a master CPU, said CPU configured to detect when an accessory is attached to the inductively powering rail.

3. The firearm of claim 2 wherein said CPU is configured to detect when an accessory is detached from the inductively powering rail.

4. The firearm of claim 1, said system utilizing a master CPU connected to a plurality of power sources to distribute power to one or more accessories, connected to said inductively powering rail, said power distributed via conductive power path.

5. The firearm of claim 1, said system utilizing a master CPU to communicate with an accessory for the purpose of determining the power requirements of the accessory and providing power from one or more sources as needed.

6. The firearm of claim 1, said system utilizing a master controller to recharge said one or more batteries from an external power source or an auxiliary power source.

7. The firearm of claim 1 said system utilizing a master CPU connected to said inductively powering rail via a control path to communicate data to and from said accessory via an inductive control path, said inductive control path flowing between said primary and secondary U-cores.

8. The firearm of claim 1 said system further comprising a multi-button pad for the user to directly control an accessory connected to said inductively powering rail.

9. The firearm of claim 1 said system utilizing a master CPU to control each inductively powering rail slot, said control comprising means for selectively turning off power to a slot.

10. The firearm of claim 1, said system utilizing a master CPU to transfer data between accessories and or send data to an external source.

11. A method for providing inductive power to an accessory mounted on a firearm according to claim 1; said method comprising: detecting connection of a secondary source on an accessory with a primary source on a firearm when said accessory is attached to said firearm and providing an inductive power path with said accessory; and providing power to said accessory from said secondary source.

12. The method of claim 11 further comprising:

monitoring the power requirements of all accessories located on the firearm,

providing information pertaining to the power requirements of all accessories located on the fire- arm to a user of said firearm,

determining if sufficient power exists for said accessories to operate; and upon determining that said power requirements are not sufficient, using a temperature value to determine if a battery powering at least one of said accessories can be recharged.

13. The method of claim 11 wherein said secondary power source is an external power source.

14. The method of claim 11 wherein said secondary power source is an auxiliary power source or an on board power device or power from a second accessory or any combination of the foregoing.