

ABSTRACT

A RAIL FOR INDUCTIVELY POWERING FIREARM ACCESSORIES

5 A method and system for an inductively powering rail on a firearm to power accessories
such as: telescopic sights, tactical sights, laser sighting modules, and night vision scopes. This is
achieved by having primary and secondary electromagnets (U-Cores) on both the inductively
powering rail and the accessory. Once the electromagnets are in contact, the accessory is able to
obtain power through induction via the inductively powering rail. Accessories may be attached
10 to various fixture points on the inductively powering rail and are detected by the firearm when
attached and detached. When attached, power and data communications may flow between the
accessory and a master CPU located on the firearm. Accessories that are attached to the
inductively powering rail and have rechargeable power systems may be recharged via the
inductive power rail. Further, accessories that have power that is not needed may be transferred
15 to other accessories.

FIG. 4