

ABSTRACT

APPARATUS AND METHOD FOR INDUCTIVELY POWERING AND NETWORKING A RAIL OF A FIREARM

A method, apparatus and system for networking accessories to a firearm or weapon wherein the accessories are inductively powered from the rail and data is transferred between the accessories and the rail via inductive coupling. In one embodiment, a weapon is provided, the weapon having: an upper receiver; a lower receiver; a powered accessory mounted to a rail of the upper receiver; and an apparatus for inductively networking a microcontroller of the powered accessory to a microcontroller of the upper receiver and a microcontroller of the lower receiver, wherein the data is exclusively provided to the powered accessory from one of a plurality of coils located within the rail; and wherein the powered accessory further comprises a plurality of coils and the powered accessory is configured to determine when one of the plurality of coils of the powered accessory is adjacent to the one of the plurality of coils of the rail.

FIG. 11