A METHOD AND APPARATUS FOR SETTING AND INTEGRATING HOME AUTOMATION GRID OR NETWORK WITH ELECTRICAL GRID

Abstract

A method and apparatus for setting and integrating home automation grid with an electrical grid of a residence and commercial unit by structurally connecting intelligent support boxes of electrical wiring devices comprising AC outlet, switch, relay, hybrid switch-relay and hybrid switch of the wiring device attached into the intelligent support box. The box including intelligent control and communication circuits including RF, RFID, optical via plastic optical fiber and IR in line of sight for communicating commands and control including power consumption reporting from every outlet and switch. The power outlets include accesses for introduction of RFID sensor or optical sensor for identifying the appliance or the load powered via the outlet and communicating with the load or appliance by variety of signal used in the home automation grid and protocols including optical via cascading optical cable grid.

Fig. 15