

(54) Title of the invention : SECURE PLUG-IN DEVICE FOR ENABLING CHARGING DEVICES WITHOUT DATA THEFT

(51) International classification :H02J0007000000, H01R0031060000, H02J0050400000, H02J0050100000, H02J0007340000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)KHOSLA, Praveen Kumar
 Address of Applicant :Professor, Chitkara University Research and Innovation Network, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)SHARMA, Bhanu
 Address of Applicant :Assistant Professor, Chitkara University Research and Innovation Network, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

3)SHARMA, Manish
 Address of Applicant :Professor, Chitkara University Research and Innovation Network, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure relates to a secure plug-in device (100) for charging devices without data theft. The plug-in device (100) comprises a relay that comprises a first male connector (102) including first power cords (106) and first data cords (108), where the first male connector (102) is adapted to be operatively connected to a second female connector (202) associated with a charging adaptor (200), a first female connector (104) including second power cords (110) adapted to be electrically connected to third power cords (304) associated with a second male connector (302) of a mobile device (300) to be charged via the charging adaptor (200), and actuators configured to operatively decouple the first data cords (108) and the third data cords (304), upon actuation of a change-over switch (114), to restrict data outflow from the mobile device (300) while enabling transfer of electrical power between the charging adaptor (200) and the mobile device (300).

No. of Pages : 14 No. of Claims : 9