

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211022490 A

(19) INDIA

(22) Date of filing of Application :15/04/2022

(43) Publication Date : 09/12/2022

(54) Title of the invention : WIRELESS AND SOLAR POWER BASED TRAFFIC LIGHT SYSTEM

(51) International classification :H02J0007000000, H02J0007020000, H02M0001000000, H02J0007350000, F16H0061120000

(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. -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SANDHU, Mamatha

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----

2)DATTA, Rubina

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----

(57) Abstract :

The proposed invention discloses a system (100) for providing electricity to traffic lights (102) using solar panels (106) and wireless power arrangement (108). The system (100) includes batteries (104) that receive the electricity generated by the solar panels (106) that are used to supply the traffic lights. Similarly, the batteries (104) are charged wirelessly by the wireless power arrangement (108), thus minimizing the cut-off of the power supply to the traffic lights 102 due to power loss. In addition, in case of failure in any part of the system (100), an entity (i.e. authorized person) is notified to take appropriate action. The failure may be a fault in traffic lights (102), failure of battery (104), failure of the wireless power arrangement (108), fault in the power source (112), fault in the solar panels (106), or the like.

No. of Pages : 18 No. of Claims : 7