

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211064900 A

(19) INDIA

(22) Date of filing of Application :12/11/2022

(43) Publication Date : 02/12/2022

(54) Title of the invention : ELECTRICAL WIRING INSTALLATION SYSTEM

(51) International classification :B25J0015000000, B25J0009160000, H05K0005000000, H02G0003040000, B25J0009100000  
(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)Jaipur National University**

Address of Applicant :Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

**1)Vatsala Pawar**

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

**2)Isha Srivastava**

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

**3)Anu Singh**

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

**4)Om Prakash Singh**

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

(57) Abstract :

An electrical wiring installation system, comprising a first-body 1 with plurality of primary wheels 2 to provide movement, a pulley 3 wrapped with cable for winding/un-winding cable, a display-panel 4 for allowing user to input wiring route for wires, a primary imaging-unit 5 to detect initial point on wall, a robotic arm 6 for gripping and inserting a pliable cable unit 7 attached with cable within initial point, a second body 8 configured with plurality of secondary wheels 9 to position the second body 8 at final point as detected by secondary imaging-unit 10 , a multi-sectioned chamber 11 for storing multiple rolls of wires, a robotic gripper 12 for gripping and positioning a first end of wire(s) between channel 13, a sliding-unit 14 configured with a roller 15 rapped with chord to move roller 15 around wires and motorized cutter 16 for cutting wires after successful placement of wires.

No. of Pages : 16 No. of Claims : 4

  
Registrar  
Jaipur National University