

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511065095 A

(19) INDIA

(22) Date of filing of Application :08/07/2025

(43) Publication Date : 25/07/2025

(54) Title of the invention : MULTIFUNCTIONAL POWER BANK

<p>(51) International classification :H02J7/00, H02J7/35, G06F21/32, G06N3/08</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Chitkara University</b> Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p> <p><b>2)Chitkara Innovation Incubator Foundation</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Kamini</b> Address of Applicant :Research Scholar, Chitkara University Research &amp; Innovation Network (CURIN), Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p> <p><b>2)Akashdeep Singh</b> Address of Applicant :Department of Computer Science &amp; Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p> <p><b>3)Shalli Rani</b> Address of Applicant :Professor, Chitkara University Research &amp; Innovation Network (CURIN), Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(57) Abstract :

A multifunctional power bank, comprising a rectangular housing 101, a finger scanner 114 to authenticate a user of power bank, multiple overlapping sliders 102 to extend size of rectangular housing 101 according to dimensions of device to be charged as detected by an artificial intelligence (AI)-enabled camera 112 and an optical laser sensor, a first module for charging first type of electronic devices, a second module for charging second type of electronic device, a pair of horizontal sliders 110 to adjust position of charging pins 108 depending on positioning of charging port over devices to be charged, a pair of pneumatic pins 111 extend and reduce their length depending on engagement of charging ports 104, a touch enabled display 113 enables user to input information about battery level, after charging.

No. of Pages : 23 No. of Claims : 9