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(54) Title: A PHOTOVOLTAIC APPARATUS FOR AND METHOD OF CHARGING AN ELECTRIC VEHICLE (EV) OR BATTERY THEREOF

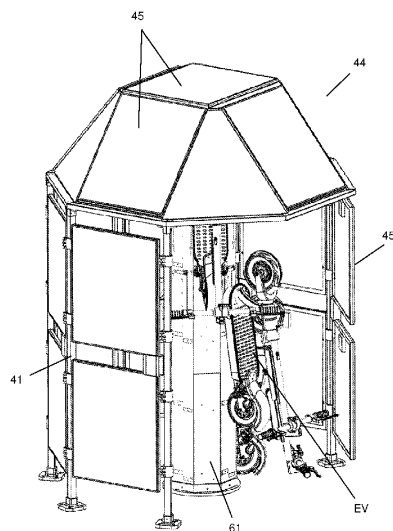


FIG 11b

(57) Abstract: A charging station comprising a structure or enclosure for charging batteries of an EV vehicle whether said batteries are removed from an EV for a charging cycle or where the EV is coupling directly to charging point. The invention provides for the accommodation or storage of electric vehicles (EVs) or batteries used therein to facilitate charging thereof via means for charging battery cells of an electric vehicle (EV) utilising power predominantly derived from solar radiation via photovoltaic panels or PV arrays. Embodiments include charging stations for electric vehicles (EVs), particularly bikes and scooters. There is further described methods of forming a charging station having multiple access doors through which batteries for an EV or an EV can be coupled to a charging port. In a preferred construction, a standalone charging station for EV scooters provides means for mounting and storing the scooters during a charging cycle. A municipal scooter hiring system is also disclosed.

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