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(54) Title: MODULAR DOCKING AND ENERGY MANAGEMENT SYSTEM FOR A SCOOTER OR BICYCLE

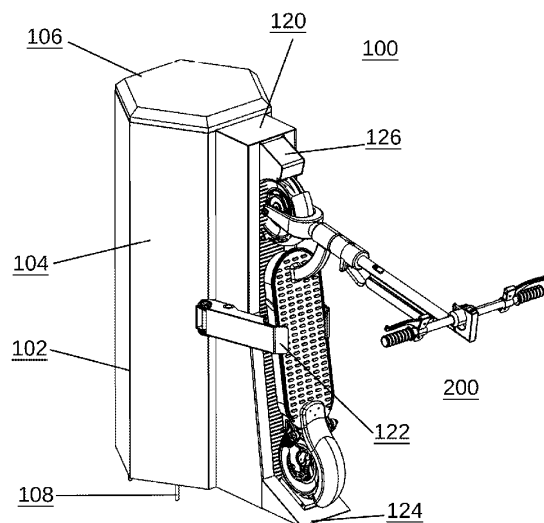


FIG. 3

(57) Abstract: The present disclosure provides a modular system for energy management and distribution, and for the docking of personal electric vehicles such as electric scooters and bicycles. The system comprises one or more core devices with polygonal frames. The edges of each frame are fitted with universal ports configured to couple with various external modules, including docking modules for different types of vehicles, to meet the demands of the space in which they are installed. The core devices have their own internal battery modules coupled to a power supply grid and implement smart charging protocols to store and discharge energy from their battery modules to connected external modules in an optimal manner. The system thus provides a versatile solution to the complex demands of city environments, both in terms of efficient and adaptable physical storage and varying power demands.

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