

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 August 2023 (17.08.2023)



(10) International Publication Number
WO 2023/152460 A9

- (51) International Patent Classification:
B60L 53/14 (2019.01)
- (21) International Application Number:
PCT/GB2022/053337
- (22) International Filing Date:
21 December 2022 (21.12.2022)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
17/669,996 11 February 2022 (11.02.2022) US
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- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,

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

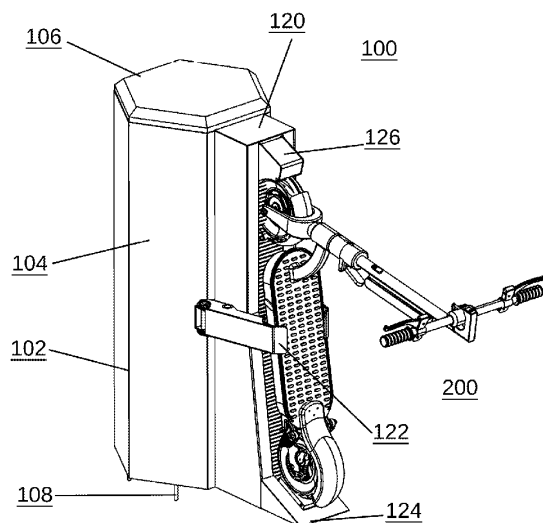


FIG. 3

(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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HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

- (84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*

(88) Date of publication of the revised international search report:

14 March 2024 (14.03.2024)

(15) Information about Correction:

see Notice of 14 March 2024 (14.03.2024)