

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
20 January 2022 (20.01.2022)



(10) International Publication Number
WO 2022/015235 A1

(51) International Patent Classification:

G07C 5/08 (2006.01) G06Q 50/30 (2012.01)
G06N 20/00 (2019.01) G08B 21/18 (2006.01)
G08B 21/02 (2006.01) H04W 4/40 (2018.01)

(21) International Application Number:

PCT/SG2020/050403

(22) International Filing Date:

13 July 2020 (13.07.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant: **GRABTAXI HOLDINGS PTE. LTD.**
[SG/SG]: 6 Shenton Way, #38-01 OUE Downtown, Singapore 068809 (SG).

(72) Inventors: **ZOU, RanRan**; B.40 GaoLiangQiao, HaiDian, Beijing 100009 (CN). **YU, Zhixin**; No. 18, XinZhong Street, DongCheng, Beijing 100027 (CN). **HOU,**

Shuangquan; No. 8 XiTaoHuTong, XiCheng, Beijing 100009 (CN). **ZHENG, Yi**; 410 7th Kirkland, Washington, Washington 98033 (US).

(74) Agent: **VIERING, JENTSCHURA & PARTNER LLP**; P.O. Box 1088, Rochor Post Office, Rochor Road, Singapore 911833 (SG).

(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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, 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.

(54) Title: SYSTEM AND METHOD FOR HANDLING EVENTS OF A FLEET OF PERSONAL MOBILITY DEVICES

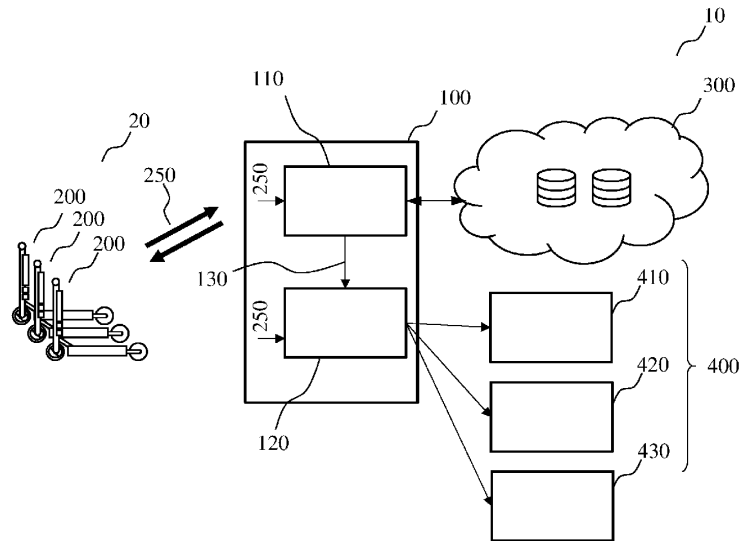


FIG. 1

(57) Abstract: A system and a method for handling events of a fleet of personal mobility devices (PMDs), the system including: a server configured to receive live data from the fleet of PMDs, store the live data in a first memory, and accumulated it as part of historical data. The server may include a processing logic including a classifier configured to provide prediction data based on at least one of: the historical data, the live data. The system may include an event processor configured to process an alarm of the live alarm data of the live data or the prediction alarm data of the prediction data, and generate an alert. Each PMD may include an IoT device and a power controller, and wherein the live data may include first data originating from the power controller and second data originating from the IoT device of a PMD of the fleet.

[Continued on next page]

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*