

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
06 January 2022 (06.01.2022)



(10) International Publication Number
WO 2022/005401 A1

(51) International Patent Classification:

H04W 4/70 (2018.01) H04L 29/08 (2006.01)
H04L 12/24 (2006.01) H04L 12/66 (2006.01)
G16Y 30/00 (2020.01) H04W 88/16 (2009.01)

Keppel Bay Tower, Singapore 098632 (SG), **SHANGHAI ENVISION DIGITAL CO., LTD.** [CN/CN]; No. 15, Lane 55, Chuanhe Road, China (Shanghai) Pilot Free Trade Zone, Shanghai (CN).

(21) International Application Number:

PCT/SG2021/050380

(72) **Inventor: ZHANG, Hongzhen**; c/o Jiangsu Envision Digital Co., Ltd., Room 616, Chang Xing International Finance Building, No. 1 Finance Road, Economic Development District, Wuxi, Jiangsu (CN).

(22) International Filing Date:

29 June 2021 (29.06.2021)

(74) **Agent: YUSARN AUDREY**; 24 Raffles Place #27-01 Clifford Centre, Singapore 048621 (SG).

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

202010628606.5 02 July 2020 (02.07.2020) CN

(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,

(71) **Applicants: ENVISION DIGITAL INTERNATIONAL PTE. LTD.** [SG/SG]; 1 Harbourfront Avenue, #17-01,

(54) **Title:** METHOD AND APPARATUS FOR UPDATING GATEWAY RESOURCE, AND IOT CONTROL PLATFORM

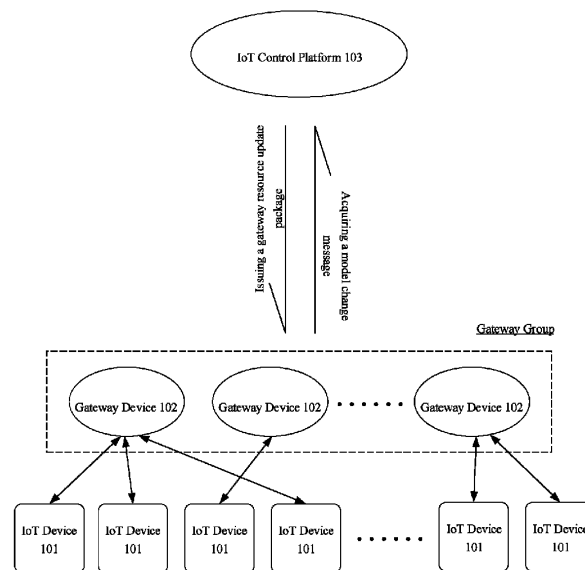


FIG. 1

(57) **Abstract:** Disclosed are a method and an apparatus for updating a gateway resource, and an Internet of Things (IoT) control platform, which belong to the field of IoT. The method is applicable to the IoT control platform connected to each gateway device, and the gateway device is connected to an IoT device. The method includes: acquiring a model change message including a change model identifier of a changed model, wherein different IoT devices correspond to different models, and each model contains measuring point information of a measuring point in the IoT device; determining an associated template based on the change model identifier and updating the associated template, the associated template containing a corresponding relationship between the measuring point information and a measuring point identifier in the changed model, and the measuring point identifier being applicable to a measuring point data message sent by the IoT device; determining a target gateway device that uses the associated template; and issuing a gateway

[Continued on next page]

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.

(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*