



(51) International Patent Classification:

G06F 16/487 (2019.01) H04W 4/029 (2018.01)
G06F 16/50 (2019.01) H04W 4/80 (2018.01)
H04W 4/021 (2018.01)

(21) International Application Number:

PCT/US2022/049994

(22) International Filing Date:

15 November 2022 (15.11.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/279,332 15 November 2021 (15.11.2021) US

(71) Applicant: TRACKONOMY SYSTEMS, INC. [US/US];
214 Devcon Dr, San Jose, California 95112 (US).

(72) Inventors: VOLKERINK, Hendrik J.; 214 Devcon Dr, San Jose, California 95112 (US). KHOCHÉ, Ajay; 214 Devcon Dr, San Jose, California 95112 (US). STORRS, Aaron; 214 Devcon Dr, San Jose, California 95112 (US). KHATRI, Varun; 214 Devcon Dr, San Jose, California 95112 (US).

(74) Agent: LINK, Douglas et al.; Lathrop GPM LLP, 1790 38th Street, Suite 301, Boulder, Colorado 80301 (US).

(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, 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,

(54) Title: IMPROVED WIRELESS INFRASTRUCTURE SETUP AND ASSET TRACKING

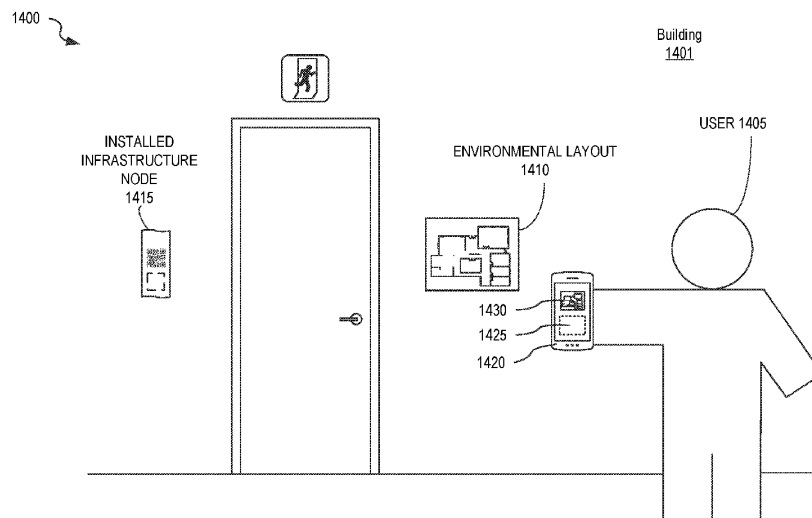


FIG. 14

(57) Abstract: Systems and methods receive an image of at least part of an environmental layout and at least two geographic feature locations associated with the image. At least two geographic locations are determined, each corresponding to a respective one of the at least two geographic feature locations and a map scale is determined for the images based on the at least two geographic feature locations and the at least two geographic locations. The map scale allows conversion between points on the image and geographic locations. The image and the map scale are used to display a location interface on a client device that allows a user to search the environmental layout for an asset associated with a tracking node, where the location interface graphically displays graphical elements indicative of communication recency between the tracking tag and one or more infrastructure nodes.

[Continued on next page]

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, 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))*

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

13 July 2023 (13.07.2023)