



(51) International Patent Classification:

G06Q 50/06 (2012.01) G06F 18/2453 (2023.01)
G06F 18/213 (2023.01) G06N 20/00 (2019.01)
G06F 18/214 (2023.01) G06Q 10/04 (2023.01)

(21) International Application Number:

PCT/US2022/050924

(22) International Filing Date:

23 November 2022 (23.11.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/282,510 23 November 2021 (23.11.2021) US
63/291,311 17 December 2021 (17.12.2021) US
63/299,727 14 January 2022 (14.01.2022) US
63/302,016 21 January 2022 (21.01.2022) US
63/375,225 10 September 2022 (10.09.2022) US

(71) Applicant: **STRONG FORCE EE PORTFOLIO 2022, LLC** [US/US]; 501 East Las Olas Blvd, Fort Lauderdale, Florida 33301 (US).

(72) Inventors: **CARDNO, Andrew**; 501 East Las Olas Blvd, Fort Lauderdale, Florida 33301 (US). **CELLA, Charles H.**; 501 East Las Olas Blvd, Fort Lauderdale, Florida 33301 (US).

(74) Agent: **NYE, Michael** et al.; 409 E Jefferson Ave, 5th Floor, Detroit, Michigan 48226 (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,

(54) Title: AI-BASED ENERGY EDGE PLATFORM, SYSTEMS, AND METHODS

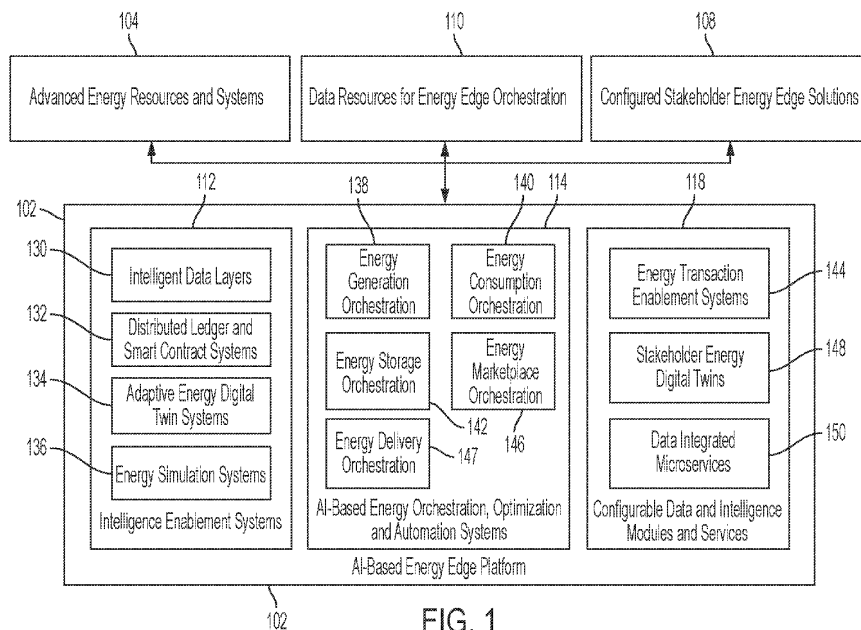


FIG. 1

(57) Abstract: An AI-based energy edge platform is provided herein with a wide range of features, components and capabilities for management and improvement of legacy infrastructure and coordination with distributed systems to support important use cases for a range of enterprises. The platform may incorporate emerging technologies to enable ecosystem and individual energy edge node efficiencies, agility, engagement, and profitability. Embodiments may forecast, plan for, and manage the demand and utilization of energy in greater distributed environments. Embodiments may use AI, IoT, and technologies that filter, process, and move data more effectively across communication networks. Embodiments of the platform may leverage energy market connection, communication, and transaction enablement platforms. Embodiments may employ intelligent provisioning, data aggregation, and analytics.

[Continued on next page]

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, 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:

27 July 2023 (27.07.2023)