



(51) International Patent Classification:

G06Q 10/10 (2012.01) G06Q 10/04 (2012.01)
G06Q 30/06 (2012.01) G06Q 10/06 (2012.01)
G06Q 50/18 (2012.01) G06Q 50/04 (2012.01)
G06N 3/08 (2006.01)

(21) International Application Number:

PCT/US2019/030934

(22) International Filing Date:

06 May 2019 (06.05.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/667,550 06 May 2018 (06.05.2018) US
62/751,713 29 October 2018 (29.10.2018) US
62/787,206 31 December 2018 (31.12.2018) US

(71) Applicant: **STRONG FORCE TX PORTFOLIO 2018, LLC** [US/US]; Suite F-125, 2500 Broadway, Santa Monica, California 90404 (US).

(72) Inventor: **CELLA, Charles Howard**; 34 Old West Elm St, Pembroke, Massachusetts 02359 (US).

(74) Agent: **WILLS, J., Stephen** et al.; GTC Law Group PC & Affiliates, One University Ave., Ste. 302B, Westwood, Massachusetts 02090 (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, 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, 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,

(54) Title: METHODS AND SYSTEMS FOR IMPROVING MACHINES AND SYSTEMS THAT AUTOMATE EXECUTION OF DISTRIBUTED LEDGER AND OTHER TRANSACTIONS IN SPOT AND FORWARD MARKETS FOR ENERGY, COMPUTE, STORAGE AND OTHER RESOURCES

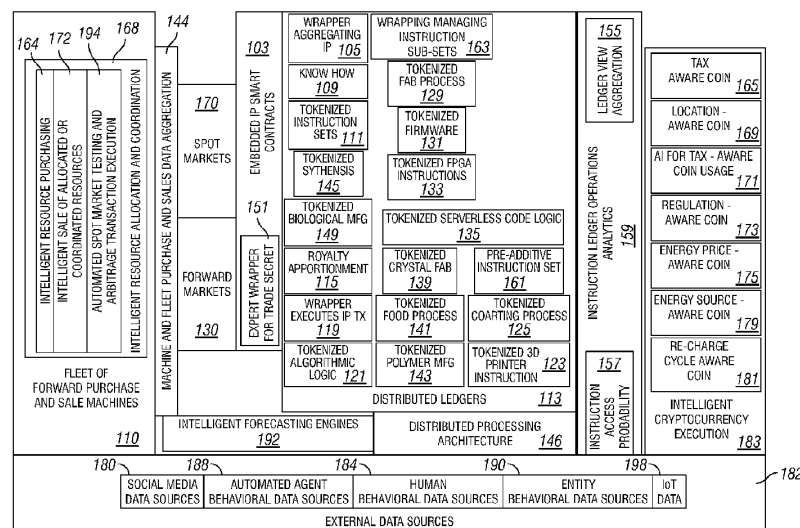


FIG. 3

(57) Abstract: A transaction-enabling system includes a production facility having a core task that is a production task. The system includes a controller having a facility description circuit that interprets a number of historical facility parameter values and a corresponding number of historical facility outcome values, and a facility prediction circuit that operates an adaptive learning system, where the adaptive learning system is configured to train a facility production predictor in response to the plurality of facility parameter values and the corresponding plurality of facility outcome values. The facility description circuit further interprets a number of present state facility parameter values, and the facility prediction circuit further operates the adaptive learning system to predict a present state facility outcome value in response to the number of present state facility parameter values.

[Continued on next page]

OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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))*
- *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))*