

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
23 January 2025 (23.01.2025)



(10) International Publication Number
WO 2025/019578 A1

(51) International Patent Classification:

G01N 33/00 (2006.01) G06Q 30/018 (2023.01)
G06Q 10/0635 (2023.01) G06Q 30/0214 (2023.01)
G06Q 10/0637 (2023.01) G06Q 40/04 (2012.01)

(21) International Application Number:

PCT/US2024/038367

(22) International Filing Date:

17 July 2024 (17.07.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/514,040 17 July 2023 (17.07.2023) US
63/515,286 24 July 2023 (24.07.2023) US

(71) Applicant: **X DEVELOPMENT LLC** [US/US]; 1600 Amphitheatre Parkway, Mountain View, California 94043 (US).

(72) Inventors: **BRONEVETSKY, Grigory**; 1600 Amphitheatre Parkway, Mountain View, California 94043 (US). **PRADHAN, Salil Vijaykumar**; 1600 Amphitheatre Parkway, Mountain View, California 94043 (US). **STIVORIC, John Michael**; 1600 Amphitheatre Parkway, Mountain View, California 94043 (US). **WILLIAMS, Dominic Deshawn**; 1600 Amphitheatre Parkway, Mountain View, California 94043 (US). **BOISSEREE, Kaitlyn**; 1600 Amphitheatre Parkway, Mountain View, California 94043 (US). **SINGAL, Dhruv**; 1720 W El Camino Real, Apt 209, Mountain View, California 94040 (US). **CHONA, Ashish Jagmohan**; 14766 Live Oak Ln, Saratoga, California 95070 (US).

(74) Agent: **PAOLETTA, Therese et al.**; Fish & Richardson P.C., PO Box 1022, Minneapolis, Minnesota 55440 (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,

(54) Title: GREENHOUSE GAS MITIGATION INFRASTRUCTURE

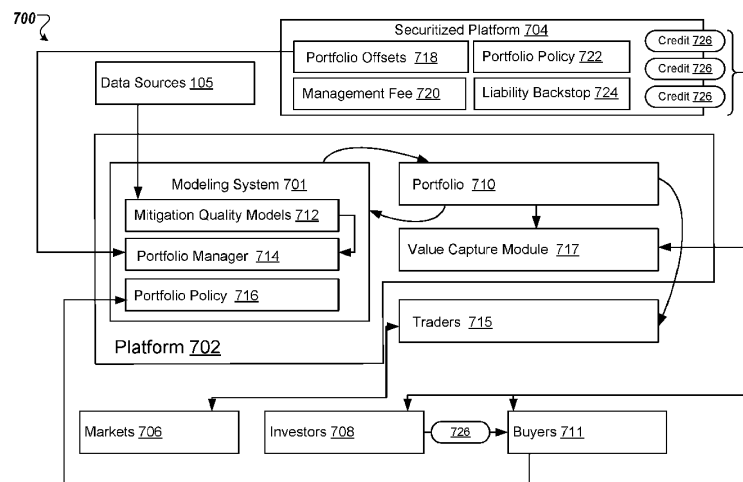


FIG. 7

(57) Abstract: A method includes: generating a greenhouse gas (GHG) mitigation credit including identifying a set of tasks to be completed by a respective set of first entities that collectively generate a GHG mitigation having a set of GHG mitigation parameters; receiving, from a second entity, a request for a GHG credit acquisition for the GHG mitigation credit; in response to receiving the request, executing the request for the GHG credit acquisition and providing the GHG mitigation credit to the second entity; and providing, to at least one of the set of first entities, instructions to cause the at least one of the set of first entities to execute a respective task of the set of tasks.

[Continued on next page]

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, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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))