



(51) International Patent Classification:

B60L 53/30 (2019.01) **B60L 53/66** (2019.01)
B60L 53/31 (2019.01) **B60L 53/18** (2019.01)

(21) International Application Number:

PCT/US2023/016463

(22) International Filing Date:

27 March 2023 (27.03.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/324,382 28 March 2022 (28.03.2022) US
63/324,565 28 March 2022 (28.03.2022) US

(71) Applicant: **VISA INTERNATIONAL SERVICE ASSOCIATION** [US/US]; P.O. Box 8999, San Francisco, California 94128 (US).

(72) Inventors: **SULLIVAN, Brian**; P.O. Box 8999, San Francisco, California 94128 (US). **CARRILLO, Steven**; P.O. Box 8999, San Francisco, California 94128 (US). **AABYE, Christian**; P.O. Box 8999, San Francisco, California 94128 (US). **FASZCZEWSKI, Cezary**; P.O. Box 8999, San Francisco, California 94128 (US).

(74) Agent: **JEWIK, Patrick** et al.; 1100 Peachtree Street, NE Suite 2800, Atlanta, Georgia 30309 (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, 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).

(54) Title: METHOD FOR SECURELY SUPPLYING ENERGY TO VEHICLES

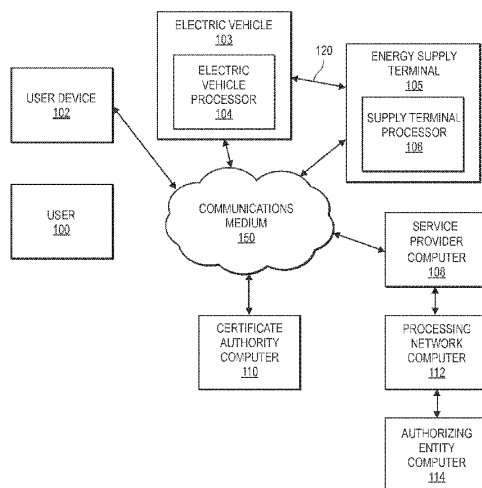


FIG. 1

(57) Abstract: A method is disclosed. It includes establishing a communication session between a vehicle comprising a first processor and an energy supply terminal comprising a second processor. The method includes obtaining, by the first processor in the vehicle, a credential or token, and then generating an encrypted data packet including the credential or token. The method also includes providing the encrypted data packet to the energy supply terminal. The energy supply terminal transmits the encrypted data packet to a service provider computer, which decrypts the encrypted data packet to obtain the credential or token, and then processes a transaction for supplying the vehicle with energy using the credential or the token.

Declarations under Rule 4.17:

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*