



(51) International Patent Classification:

G06Q 20/02 (2012.01) G06Q 20/22 (2012.01)
G06Q 20/04 (2012.01) G06Q 20/32 (2012.01)
G06Q 20/06 (2012.01) G06Q 20/34 (2012.01)
G06Q 20/40 (2012.01) G06Q 20/38 (2012.01)
G06F 21/60 (2013.01) G06Q 40/02 (2023.01)
G06Q 20/10 (2012.01) G06Q 40/06 (2012.01)

(21) International Application Number:

PCT/US2022/045324

(22) International Filing Date:

30 September 2022 (30.09.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

17/498,622 11 October 2021 (11.10.2021) US

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(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,

(54) Title: SYSTEMS AND METHODS FOR SEAMLESSLY PROCESSING TRANSACTIONS USING DISTRIBUTED LEDGER TECHNOLOGY IN A LEGACY SYSTEM INFRASTRUCTURE

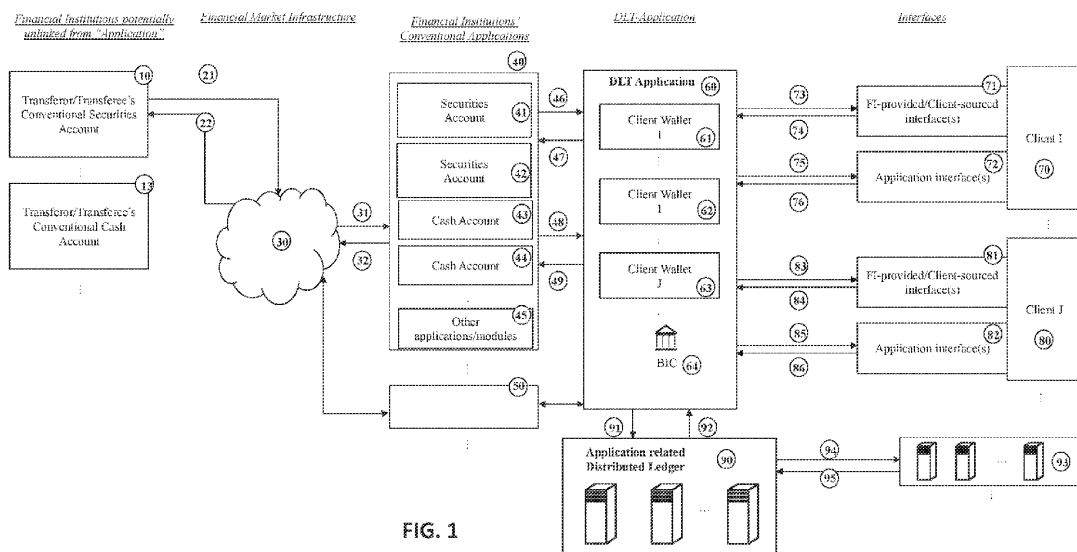


FIG. 1

(57) Abstract: A computer-implemented method for seamlessly processing transactions using distributed ledger technology. The method may comprise: linking one or more conventional accounts hosted in a conventional banking infrastructure to one or more DLT-based client accounts hosted on a distributed ledger, wherein the DLT application comprises a routing address configured to be used in conventional transaction infrastructure using conventional communication protocols; storing one or more wallet identifications for the one or more DLT-based client accounts and a mapping of the one or more wallet identifications to the one or more conventional accounts hosted in the conventional banking infrastructure; exchanging a sequence of messages to execute an asset transfer and complete a transaction lifecycle, the sequence of messages based on the first asset type; updating the distributed ledger based on the asset transfer; and sending appropriate messages to clients.

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LY, MA, MD, ME, 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, 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, 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).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

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))*