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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
03 May 2018 (03.05.2018)

WIPO | PCT

(10) International Publication Number
WO 2018/081698 A1

(51) International Patent Classification:
G06Q 20/36 (2012.01) *G06Q 40/06* (2012.01)
G06Q 40/04 (2012.01)

(21) International Application Number:
PCT/US2017/059015

(22) International Filing Date:
30 October 2017 (30.10.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/414,398 28 October 2016 (28.10.2016) US

(71) Applicant: **JPMORGAN CHASE BANK, N. A.** [US/US]; 270 Park Avenue, New York, NY 10017 (US).

(72) Inventors: **HALLAM, Jonathan C.**; 270 Park Avenue, New York, NY 10017 (US). **MALLELA, Naveen**; 270 Park Avenue, New York, NY 10017 (US). **LONSDALE, Gavin**; 270 Park Avenue, New York, NY 10017 (US). **DRAKE, Lawrence Charles**; 270 Park Avenue, New York, NY 10017 (US). **VALIVETI, Sai Murali Krishna**; 270 Park Avenue, New York, NY 10017 (US). **AQUINO, Elizabeth Polanco**; 270 Park Avenue, New York, NY 10017 (US). **VOELL, David**; 270 Park Avenue, New York, NY 10017 (US). **SHETTY, Suresh**; 270 Park Avenue, New York, NY 10017 (US). **FALAH, Samer**; 270 Park Avenue, New York, NY 10017 (US). **LEE, William J.**; 270 Park Avenue, New York, NY 10017 (US). **LIM, Leticia Pui Sze**; 270 Park Avenue, New York, NY 10017 (US). **SANT'ANNA, Luciane Gomes**; 270 Park Avenue, New York, NY 10017 (US).

(74) Agent: **KING, Robert A.** et al.; Hunton and Williams LLP, 2200 Pennsylvania Avenue, NW, Washington, DC 20037 (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, 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,

(54) Title: APPLICATION OF DISTRIBUTED LEDGERS FOR NETWORK PAYMENTS AS FINANCIAL EXCHANGE SETTLEMENT AND RECONCILIATION

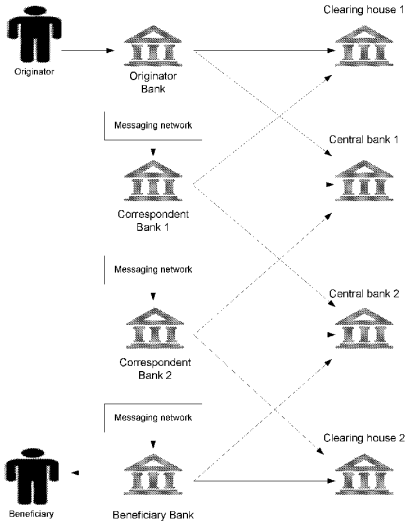


FIGURE 1
(Prior Art)

(57) Abstract: Systems and methods for the application of distributed ledgers for network payments as financial exchange settlement and reconciliation are disclosed. In one embodiment, a method for processing network payments using a distributed ledger may include: (1) a payment originator initiating a payment instruction to a payment beneficiary; (2) a payment originator bank posting and committing the payment instruction to a distributed ledger on a peer-to-peer network; (3) the payment beneficiary bank posting and committing the payment instruction to the distributed ledger on a peer-to-peer network; and (4) the payment originator bank validating and processing the payment through a payment originator bank internal system and debiting an originator account.

WO 2018/081698 A1

[Continued on next page]

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))*