

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 June 2020 (04.06.2020)



(10) International Publication Number
WO 2020/113081 A1

(51) International Patent Classification:

G06Q 20/00 (2012.01) H04L 9/08 (2006.01)
H04L 9/00 (2006.01) H04L 9/18 (2006.01)
H04L 9/06 (2006.01)

(21) International Application Number:

PCT/US2019/063724

(22) International Filing Date:

27 November 2019 (27.11.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

16/204,405 29 November 2018 (29.11.2018) US

(71) Applicant: **PAYPAL, INC.** [US/US]; 2211 North First Street, San Jose, California 95131 (US).

(72) Inventor: **SARIN, Pankaj**; 2211 North First Street, San Jose, California 95131 (US).

(74) Agent: **CHEN, Tom**; HAYNES AND BOONE, LLP, 2323 Victory Avenue, Suite 700, Dallas, Texas 75219 (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.

(54) Title: RESOURCE-BASED DISTRIBUTED PUBLIC LEDGER SYSTEM

300

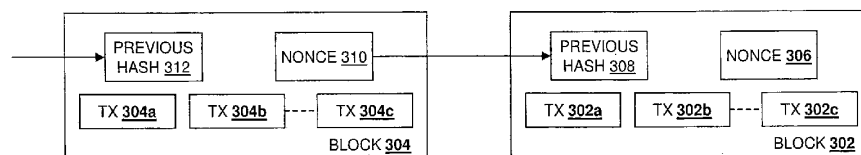


FIGURE 3

(57) Abstract: Systems and methods for providing a resource-based distributed public crypto currency blockchain include system provider device(s) that receive first crypto currency transaction information for a first crypto currency transaction that is configured to provide for the transfer of a crypto currency to a payee via a primary distributed public crypto currency blockchain maintained by computing devices. The system provider device(s) identify resource information provided by each computing device and use the resource information to select a subset of the computing devices for processing the first crypto currency transaction. The system provider device(s) then broadcast, via the network to each computing device, the first crypto currency transaction information for the first crypto currency transaction in order to cause a first computing device to process the first crypto currency transaction as part of a first block that is added to the primary distributed public crypto currency blockchain.

[Continued on next page]

WO 2020/113081 A1

(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))