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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
14 November 2019 (14.11.2019)

WIPO | PCT

(10) International Publication Number
WO 2019/217669 A1

(51) International Patent Classification:
G06Q 20/08 (2012.01) *G06Q 20/38* (2012.01)
G06Q 20/22 (2012.01)

(21) International Application Number:
PCT/US2019/031506

(22) International Filing Date:
09 May 2019 (09.05.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/669,734 10 May 2018 (10.05.2018) 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, 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,

(54) Title: METASTABLE BYZANTINE AGREEMENT

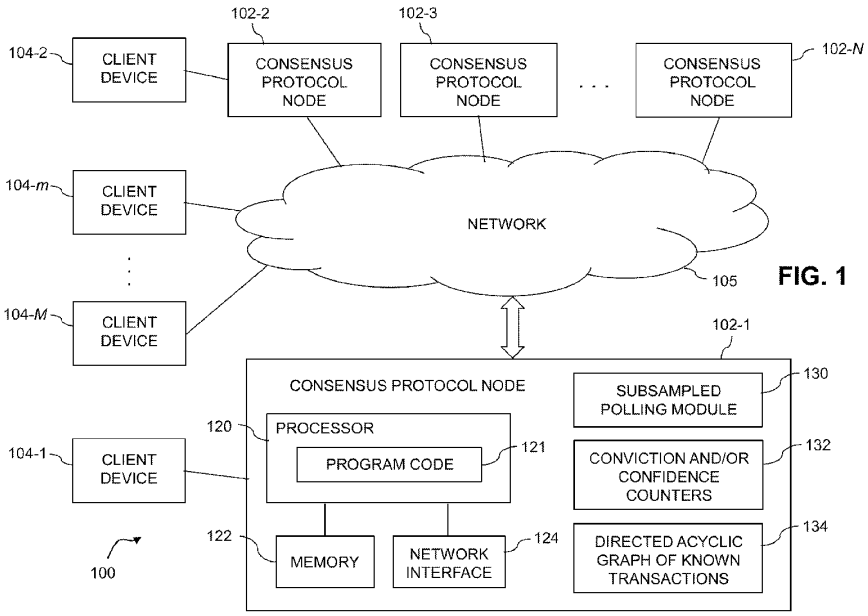

FIG. 1

(57) Abstract: An apparatus comprises a first processing node configured to participate in a consensus protocol with a plurality of additional processing nodes. The first processing node is further configured in conjunction with its participation in the consensus protocol to implement repeated polling of respective selected subsets of the additional processing nodes, to resolve a state for a given transaction to a particular one of a plurality of possible states for the given transaction responsive to results of the repeated polling; and to initiate at least one automated action based at least in part on the resolved state for the given transaction. In some embodiments, the first processing node utilizes the results of the repeated polling to maintain a directed acyclic graph or other data structure of transactions that characterizes relationships between the given transaction and a plurality of other transactions.

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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, 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))*