



(51) International Patent Classification:

G06Q 30/00 (2012.01) G06Q 10/08 (2012.01)
H04L 9/32 (2006.01) G06Q 50/28 (2012.01)

(21) International Application Number:

PCT/SG2021/050119

(22) International Filing Date:

09 March 2021 (09.03.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202002234Y 11 March 2020 (11.03.2020) SG

(71) Applicant: NATIONAL UNIVERSITY OF SINGAPORE [SG/SG]; 21 Lower Kent Ridge Road, Singapore 119077 (SG).

(72) Inventors: FINN, Peter; c/o National University of Singapore, Faculty of Arts and Social Sciences / Department of Political Science, 21 Lower Kent Ridge Road, Singapore 119077 (SG). WANG, Lei; c/o National University of Singapore, Faculty of Arts and Social Sciences / Department of Political Science, 21 Lower Kent Ridge Road, Singapore 119077 (SG). KOCHMER, Jonathan; Orange Grove Serviced Apartments, 12 Orange Grove Rd, Singapore 268353 (SG).

(74) Agent: DAVIES COLLISON CAVE ASIA PTE. LTD.; 10 Collyer Quay #07-01, Ocean Financial Centre, Singapore 049315 (SG).

(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, IT, JO, JP, KE, KG, KH, KN,

(54) Title: TOKEN ALLOCATION, PHYSICAL ASSET TRANSFERRAL AND INTERACTION MANAGEMENT

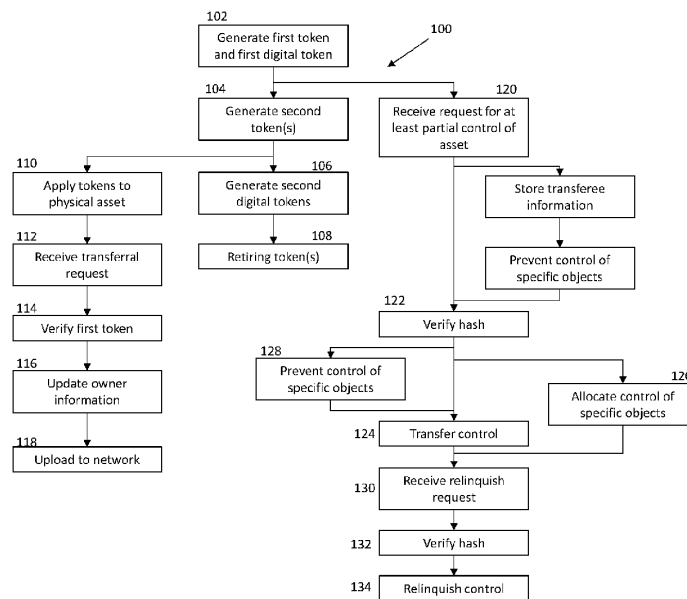


Figure 1

(57) Abstract: Disclosed is a computer-implemented method for allocating tokens to quantities of bulk goods. The method includes generating a first token and first digital token associated therewith and with a first physical quantity of a bulk good (first quantity). Two or more second tokens are generated for association with second physical quantities of the bulk good (second quantities), the second quantities being portions of the first quantity. Each second token is associated with a second digital token, and each second digital token is associated with one or more product properties, at least one said product property in each case being the respective second physical quantity of the bulk good. A sum of all the second quantities associated with the second tokens does not exceed the first quantity.

[Continued on next page]

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, 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:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*
— *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*