

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
19 November 2020 (19.11.2020)



(10) International Publication Number
WO 2020/231324 A1

(51) International Patent Classification:

G06Q 50/30 (2012.01) G06Q 30/04 (2012.01)
G06Q 10/06 (2012.01)

(21) International Application Number:

PCT/SG2019/050267

(22) International Filing Date:

16 May 2019 (16.05.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant: GRABTAXI HOLDINGS PTE. LTD.

[SG/SG]: 6 Shenton Way, #38-01 OUE Downtown, Singapore 068809 (SG).

(72) Inventors: XU, Xin; 7 Jurong East St 32, #12-07, The Mayfair, Singapore 609480 (SG). WILSON, Padarn George; 20 Upper Circular Road, The Riverwalk, #20-01, Singapore 058416 (SG). XIE, Chao; 312A Clementi Avenue 4, #24-165, Singapore 121312 (SG). CAO, Yang; 2 Ghim Moh Road, #09-320, Singapore 270002 (SG). KUMAR, Prashant; 11 Amber Road, #16-02, Singapore 439857 (SG).

(74) Agent: MCLAUGHLIN, Michael Gerard et al.; McLaughlin IP Pte. Ltd., #14-01, 112 Robinson Road, Singapore 068902 (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, 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, 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).

(54) Title: COMMUNICATIONS SERVER APPARATUS AND METHOD FOR DERIVING A QUANTUM MODIFIER FOR A TRANSPORT-RELATED SERVICE

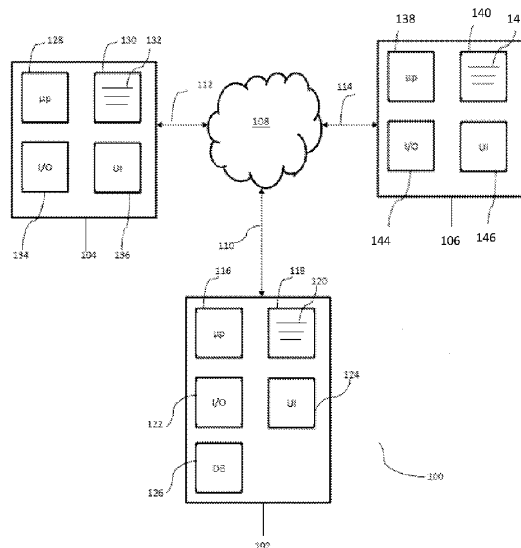


Fig. 1

(57) Abstract: A communications server apparatus for deriving a quantum modifier for a quantum related to a transportation service, the communications server apparatus comprising a processor and a memory, and being configured, under control of the processor to execute instructions in the memory: to receive user service request data comprising data indicative of a user pick-up location and data indicative of a user drop-off location, to record a user pick-up time and to generate one or more data records comprising: an index idle time data field comprising data indicative of an index idle time at plural notional drop-off locations; and a user drop-off time data field comprising data indicative of a user drop-off time; to retrieve, from a database, data indicative of a service provider's estimated idle time for the user drop-off location at the user drop-off time; to compare the data indicative of the index idle time and the data indicative of the service provider's estimated idle time and generate a comparison result data field comprising data indicative of a comparison result; and to generate, in the one or more data records, a data field comprising quantum modifier data indicative of the quantum modifier based on the data indicative of the comparison result.

[Continued on next page]

Declarations under Rule 4.17:

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