

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
19 August 2021 (19.08.2021)



(10) International Publication Number
WO 2021/161089 A1

(51) International Patent Classification:

G06Q 30/02 (2012.01) G06Q 30/06 (2012.01)
G06Q 50/10 (2012.01)

(21) International Application Number:

PCT/IB2020/061772

(22) International Filing Date:

10 December 2020 (10.12.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

16/791,413 14 February 2020 (14.02.2020) US

(71) Applicant: **COUPANG CORP.** [KR/KR]; 570 Songpa-daero, Songpa-gu, Seoul 05510 (KR).

(72) Inventor: **LEE, Seung Won**; 570 Songpa-daero, Songpa-gu, Seoul 05510 (KR).

(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, 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).

(54) Title: SYSTEMS AND METHODS FOR RECEIVING AND PROPAGATING EFFICIENT SEARCH UPDATES IN REAL TIME

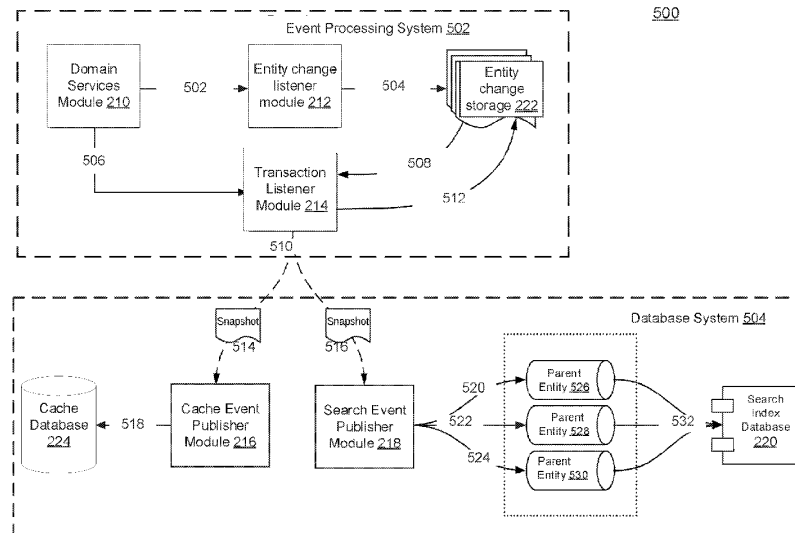


FIG. 5

(57) Abstract: A system for receiving and propagating efficient search updates includes one or more processors configured to receive, from a first external system via a network, a first entity change request to modify data in an entity associated with the first external system. The first entity change request is saved in an entity store. The received entity change request is pushed from the entity store to an event publisher for forwarding to a streaming service. The first entity change request is classified and forwarded, from the streaming service, to a search index database. The search index is then updated based on the classified entity change request.

[Continued on next page]

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