



(51) International Patent Classification:
G06F 12/0815 (2016.01) *G06F 12/0873* (2016.01)
G06F 12/0813 (2016.01)

(21) International Application Number:
PCT/IB2020/062033

(22) International Filing Date:
16 December 2020 (16.12.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
17/120,884 14 December 2020 (14.12.2020) US

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

(72) Inventors: **KIM, Seokhyun**; 570 Songpa-daero, Songpa-gu, Seoul 05510 (KR). **HUANG, Yixiang**; 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,

(54) Title: SYSTEM AND METHOD FOR LOCAL CACHE SYNCHRONIZATION

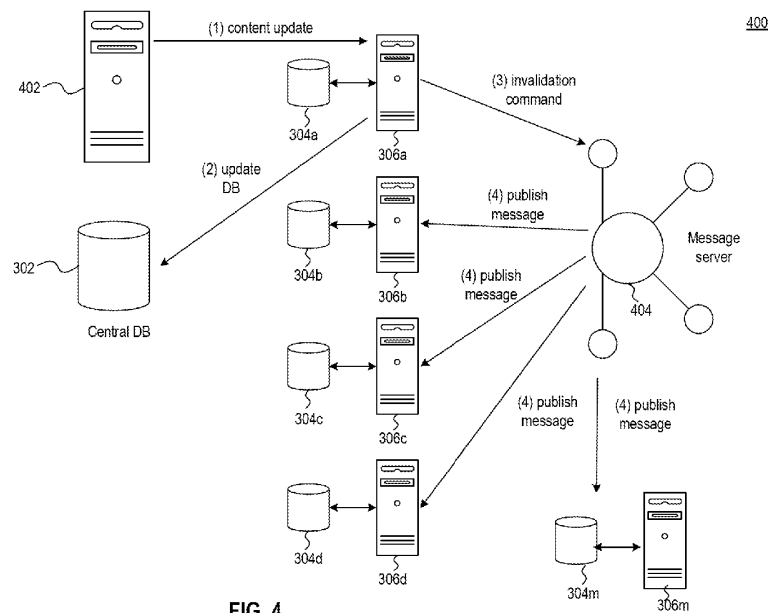


FIG. 4

(57) Abstract: A computer-implemented method for synchronizing local caches is disclosed. The method may include receiving a content update which is an update to a data entry stored in local caches of each of a plurality of remote servers. The method may include transmitting the content update to a first remote server to update a corresponding data entry in a local cache of the first remote server. Further, the method may include generating an invalidation command, indicating the change in the corresponding data entry. The method may include transmitting the invalidation command from the first remote server to the message server. The method may include generating, by the message server, a plurality of partitions based on the received invalidation command. The method may include transmitting, from the message server to each of the remote servers, the plurality of partitions, so that the remote servers update their respective local caches.

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))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*