



- (21) **International Patent Classification:**
H04L 5/00 (2006.01)
- (21) **International Application Number:**
PCT/US2020/020658
- (22) **International Filing Date:**
02 March 2020 (02.03.2020)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
62/831,717 09 April 2019 (09.04.2019) US
16/805,631 28 February 2020 (28.02.2020) US
- (71) **Applicant: QUALCOMM INCORPORATED** [US/US]:
ATTN: International IP Administration, 5775 Morehouse
Drive, San Diego, California 92121-1714 (US).
- (72) **Inventors: HOSSEINI, Seyedkianoush;** 5775 More-
house Drive, San Diego, California 92121-1714 (US).
FAKOORIAN, Seyed Ali Akbar; 5775 Morehouse Drive,
San Diego, California 92121-1714 (US). **BECKMAN,
James;** 5775 Morehouse Drive, San Diego, California
92121-1714 (US). **KHANDEKAR, Aamod;** 5775 More-
house Drive, San Diego, California 92121-1714 (US).
- (74) **Agent: BRENNAN, Devin R.;** Holland & Hart LLP, P.O.
Box 11583, Salt Lake City, Utah 84147 (US).
- (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, 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).
- Published:**
— with international search report (Art. 21(3))

- (54) Title:** CONTROL CHANNEL MONITORING CAPABILITY FOR LOW LATENCY COMMUNICATIONS

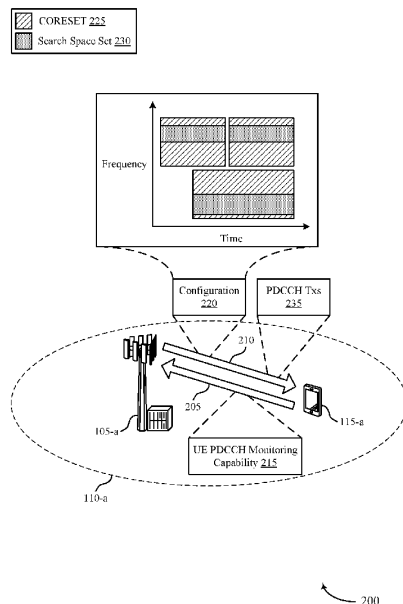


FIG. 2

- (S7) Abstract:** This disclosure provides systems, methods and apparatus where a user equipment (UE) may indicate different physical downlink control channel (PDCCH) monitoring capabilities (such as UE capabilities in terms of the number of control channel elements (CCEs), blind decodes (BDs), number of downlink control information (DCI) formats, etc.) per monitoring span or slot. For example, a UE may support a different number of CCEs per slot or a different number of DCIs per monitoring span for different service types (such as a different number of CCEs for enhanced mobile broadband (eMBB) and for ultra-reliable low latency communications (URLLC)). A UE may indicate different sets of PDCCH monitoring capabilities (such as sets of PDCCH monitoring capabilities for different service types, monitoring spans, slots, etc.). A base station may receive the indication of UE PDCCH monitoring capability information, and may configure the UE with one or more monitoring occasions accordingly.