

(51) International Patent Classification:
H04L 29/06 (2006.01)(21) International Application Number:
PCT/EP2020/067816(22) International Filing Date:
25 June 2020 (25.06.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/870,119 03 July 2019 (03.07.2019) US(71) Applicant: **TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)** [SE/SE]; 164 83 Stockholm (SE).(72) Inventors: **IHLAR, Marcus**; Stångatan 22, 125 74 ÄLVISJÖ (SE). **SARKER, Zaheduzzaman**; Apollovägen 78, 176 50 Järfälla (SE). **FERLIN, Simone**; Mariehaellstorget 7, Lgh 1403, 16872 Stockholm (SE). **KUEHLEWIND, Mirja**; Asperger Str. 12, 71634 Ludwigsburg (DE).(74) Agent: **ERICSSON**; Torshamnsgatan 21-23, 164 80 STOCKHOLM (SE).

(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: PACKET ACKNOWLEDGEMENT TECHNIQUES FOR IMPROVED NETWORK TRAFFIC MANAGEMENT

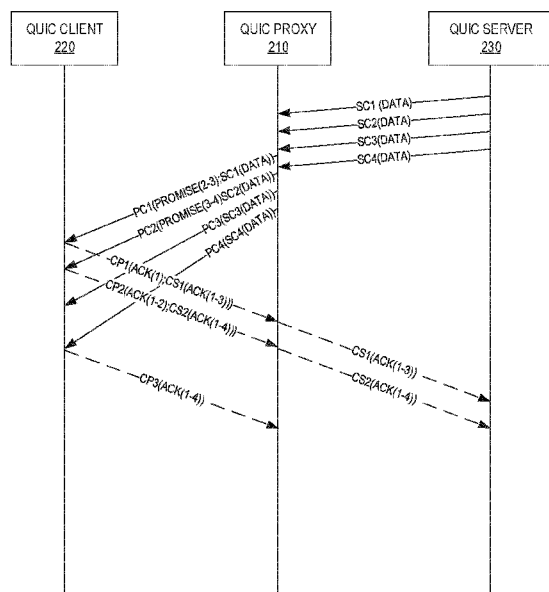


FIG. 5

(57) Abstract: A proxy server (700) receives, from a sending device, a packet intended for a receiving device (600). The proxy server (700) sends, to the receiving device (600), a promise frame (300) indicating that the proxy server (700) will deliver the packet to the receiving device (600) later. The receiving device (600) receives the promise frame (300) from the proxy server (700), and sends an acknowledgement of the packet to the sending device via the proxy server (700). The proxy server (700) forwards the acknowledgement of the packet from the receiving device (600) to the sending device, and delivers the packet to the receiving device (600) after having forwarded the acknowledgement to the sending device. The receiving device (600) receives the packet from the proxy server (700) after having sent the acknowledgement of the packet to the sending device via the proxy server (700).