

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 June 2022 (30.06.2022)



(10) International Publication Number
WO 2022/133946 A1

(51) International Patent Classification:
H04W 84/12 (2009.01)

(21) International Application Number:
PCT/CN2020/139147

(22) International Filing Date:
24 December 2020 (24.12.2020)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant: **GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.** [CN/CN];
No. 18, Haibin Road, Wusha, Chang'an, Dongguan, Guang-
dong 523860 (CN).

(72) Inventor: **HUANG, Lei**; #25-01 Samsung Hub, 3 Church
Street, 049483 (SG).

(74) Agent: **CHINA PAT INTELLECTUAL PROPERTY
OFFICE**; 2nd Floor, Zhongguancun Intellectual Property
Building, Block B, No.21 Haidian South Road, Haidian Dis-
trict, Beijing 100080 (CN).

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))

(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,

(54) Title: METHODS AND APPARATUSES FOR TRIGGERING UPLINK TRANSMISSION IN WIRELESS LOCAL AREA NETWORKS

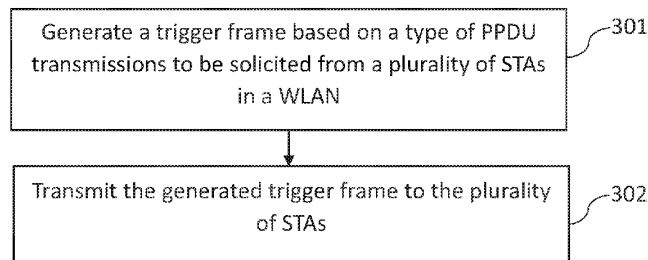


Figure 3

(57) Abstract: Embodiments of the invention provide methods and apparatuses for triggering uplink transmission in wireless local area network (WLAN). The method for triggering uplink transmission comprises generating, by an access point (AP), a trigger frame based on a type of physical layer protocol data unit (PPDU) transmissions to be solicited from a plurality of stations (STAs) in the WLAN, wherein the trigger frame comprises a common information field including a first subfield indicating whether the trigger frame is a first type trigger frame or a second type trigger frame, and if the trigger frame is the second type trigger frame, the common information field further comprises a second subfield indicating the PPDU transmission type, and transmitting the trigger frame to the plurality of STAs. With the methods and apparatuses proposed by embodiments of the invention, the generated trigger frame may be used to solicit different types of uplink transmission in WLAN.



WO 2022/133946 A1