

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
15 July 2021 (15.07.2021)



(10) International Publication Number
WO 2021/139900 A1

(51) International Patent Classification:
H04W 72/12 (2009.01) *H04W 84/12* (2009.01)

(21) International Application Number:
PCT/EP2020/050607

(22) International Filing Date:
10 January 2020 (10.01.2020)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant: **HUAWEI TECHNOLOGIES CO., LTD.**
[CN/CN]; Huawei Administration Building Bantian Long-
gang District, Shenzhen, Guangdong 518129 (CN).

(72) Inventor; and

(71) Applicant (for US only): **REDLICH, Oded** [IL/DE]; c/
o Huawei Technologies Duesseldorf GmbH, Riesstr.25,
80992 Munich (DE).

(72) Inventors: **TSODIK, Genadiy**; c/o Huawei Technolo-
gies Duesseldorf GmbH, Riesstr.25, 80992 Munich (DE).
SHILO, Shimon; c/o Huawei Technologies Duesseldorf
GmbH, Riesstr. 25, 80992 Munich (DE). **HU, Mengshi**;
c/o Huawei Technologies Duesseldorf GmbH, Riesstr. 25,

80992 Munich (DE). **YU, Jian**; c/o Huawei Technologies
Duesseldorf GmbH, Riesstr. 25, 80992 Munich (DE).

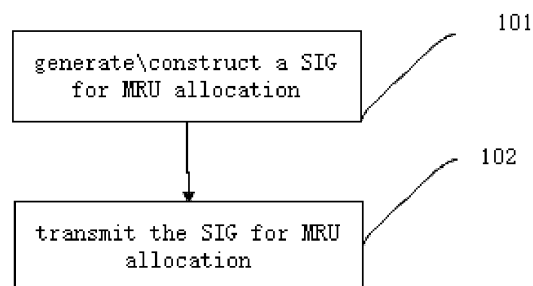
(74) Agent: **KREUZ, Georg**; Huawei Technologies Duesseld-
dorf GmbH, Riesstr. 25, 80992 Munich (DE).

(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,

(54) Title: RESOURCE ALLOCATION SIGNALING IN A WIRELESS LOCAL AREA NETWORK PREAMBLE

Fig. 3



(57) Abstract: An apparatus for wireless communication, comprising: a memory that stores instructions; and a processor coupled with the memory, wherein the processor and the memory are configured to: generate a signaling field, SIG, in a wireless local area network, WLAN, the SIG comprises a resource unit, RU, allocation field, indicating a size and location of each RU in a frequency resource, the SIG further comprises one or more user field, each user field comprises information of a scheduled station, STA; wherein a MRU which comprises multiple RUs is allowed to be assigned to one STA; and transmit the SIG.

[Continued on next page]

WO 2021/139900 A1

WO 2021/139900 A1

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))*