



(51) International Patent Classification:  
**H04B 7/024** (2017.01)

(21) International Application Number:  
PCT/EP2023/052035

(22) International Filing Date:  
27 January 2023 (27.01.2023)

(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 MN only): **TSODIK, Genadiy** [IL/DE];  
Huawei Technologies Duesseldorf GmbH, Riesstr. 25,  
80992 Munich (DE).

(72) Inventors: **KLEIN, Arik**; Huawei Technologies Duesseld-  
orf GmbH, Riesstr. 25, 80992 Munich (DE). **SHILO, Shi-  
mon**; Huawei Technologies Duesseldorf GmbH, Riesstr.  
25, 80992 Munich (DE). **REDLICH, Oded**; Huawei Tech-  
nologies Duesseldorf GmbH, Riesstr. 25, 80992 Munich  
(DE).

(74) Agent: **HUAWEI EUROPEAN IPR**; Huawei Technolo-  
gies Duesseldorf 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, CV, CZ, DE, DJ, DK, DM,

(54) Title: DEVICES AND METHODS FOR COORDINATED TRANSMISSION IN A WIRELESS NETWORK

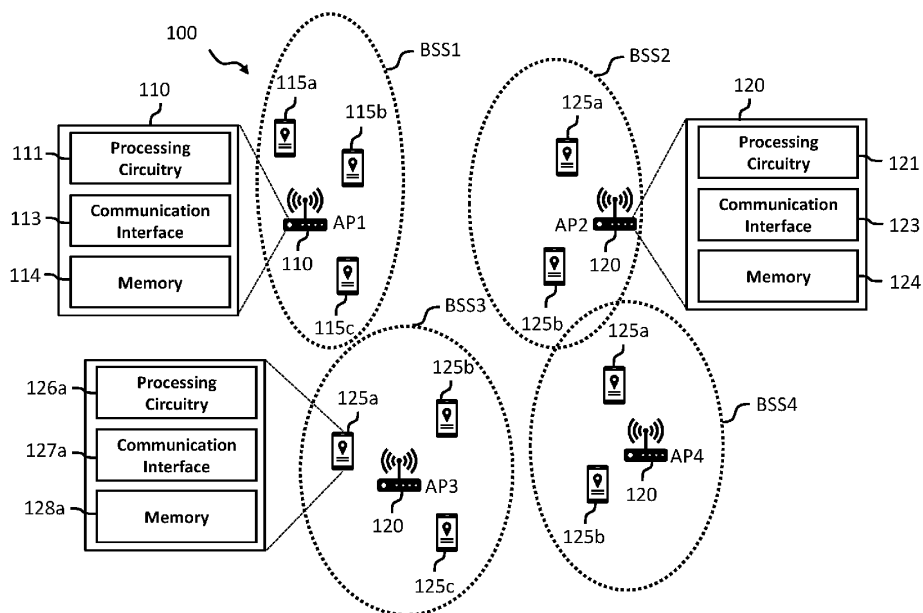


Fig. 1

(57) Abstract: This disclosure relates to a sharing AP (110) configured to share a transmission opportunity, TXOP, with a plurality of shared APs (120) operating under a coordination agreement within a M-AP set for participating in a coordinated transmission to one or more non-AP stations (115a-c) associated with the sharing AP and a plurality of further non-AP stations (125a-c) associated with the shared APs (120). The sharing AP (110) is configured to receive completion status information from one or more of the plurality of shared APs (120), wherein the completion status information is indicative of a completion status of transmitting information related to an operation under the coordination agreement to one or more of the plurality of further non-AP stations (125a-c) associated with the respective shared AP (120). Moreover, the sharing AP (110) is configured, based on the completion status information of each of the one or more of the plurality of shared APs (120), to generate and maintain a data structure indicating the completion status for each

[Continued on next page]

DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,  
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE,  
KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU,  
LY, MA, MD, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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))

---

of the plurality of shared APs (120).