

(51) International Patent Classification:
H04W 16/14 (2009.01) *H04B 7/26* (2006.01)(21) International Application Number:
PCT/US2010/046213(22) International Filing Date:
20 August 2010 (20.08.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/235,997 21 August 2009 (21.08.2009) US

(72) Inventors; and

(71) Applicants : **XU, Hua** [CA/CA]; 4000 Innovation Dr., Kanata, ON K2K 3K1 (CA). **HEO, Youn, Hyoung** [KR/CA]; 176 Colombia St. W., Waterloo, ON N2L 3L3 (CA). **CAI, Zhijun** [CN/US]; Bldg. 6, Brazos East, Ste. 100, 5000 Riverside Dr., Irving, TX 75039 (US). **EARN-SHAW, Mark** [CA/CA]; 4000 Innovation Drive, Kanata, ON K2K 3K1 (CA). **FONG, Mo-Han** [CA/CA]; 4000 Innovation Drive, Kanata, ON K2K 3K1 (CA). **MCBEATH, Sean** [US/US]; Bldg. 6, Brazos East, Ste. 100, 5000 Riverside Dr., Irving, TX 75039 (US). **HARRISON, R., Mark** [US/US]; Bldg. 6, Brazos East, Ste. 100, 5000 Riverside Dr., Irving, TX 75039 (US).(74) Agent: **RONEY, Edward, M.**; Quarles & Brady LLP, 300 North LaSalle Street, Suite 4000, Chicago, IL 60654-3406 (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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: TRANSMISSION OF INFORMATION IN A WIRELESS COMMUNICATION SYSTEM

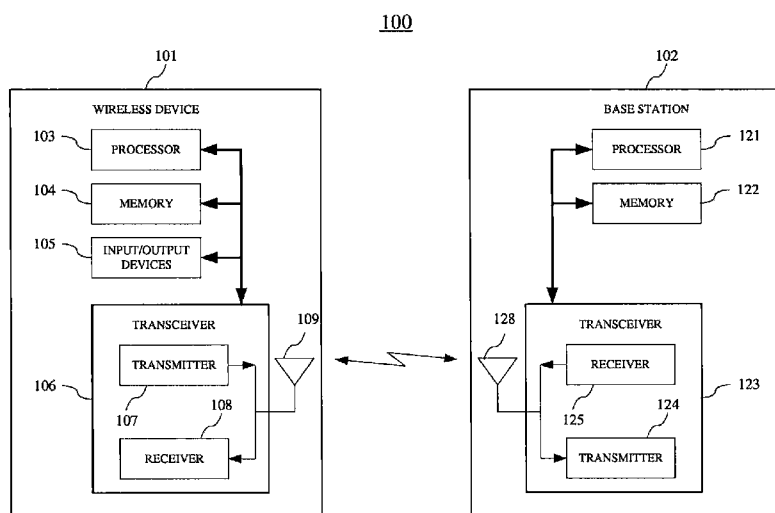


FIG. 1 (PRIOR ART)

(57) Abstract: Methods, devices, and systems for the transmission of information in a wireless communication system are disclosed. In one embodiment, a method for the transmission of information in a wireless communication system comprises receiving a downlink message (707), wherein the downlink message (707) includes a first control channel element (708); determining a first index (710a) using the location of the first control channel element (708); determining a second index (710b); determining a first orthogonal resource (705a) using the first index (710a); determining a second orthogonal resource (705b) using the second index (710b); spreading an uplink message using the first orthogonal resource (705a) to form a first spread signal; spreading the uplink message using a second orthogonal resource (705b) to form a second spread signal; transmitting the first spread signal using a first antenna (704a); and transmitting the second spread signal using a second antenna (704b).



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