



(51) International Patent Classification:
H04W 52/34 (2009.01) *H04W 52/14* (2009.01)
H04W 52/36 (2009.01)

(21) International Application Number:
PCT/US2015/013616

(22) International Filing Date:
29 January 2015 (29.01.2015)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/933,169	29 January 2014 (29.01.2014)	US
61/955,632	19 March 2014 (19.03.2014)	US
61/978,630	11 April 2014 (11.04.2014)	US
61/989,997	7 May 2014 (07.05.2014)	US
62/002,625	23 May 2014 (23.05.2014)	US
62/007,147	3 June 2014 (03.06.2014)	US
62/033,993	6 August 2014 (06.08.2014)	US
62/060,492	6 October 2014 (06.10.2014)	US
62/069,739	28 October 2014 (28.10.2014)	US
62/093,965	18 December 2014 (18.12.2014)	US

(71) Applicant: **INTERDIGITAL PATENT HOLDINGS, INC.** [US/US]; 200 Bellevue Parkway, Suite 300, Wilmington, Delaware 19809 (US).

(72) Inventors: **PELLETIER, Ghyslain**; 2055 rue De Valmont, Chomedey, Laval, Québec H7M 3J3 (CA). **MARINIER, Paul**; 1805 Stravinski, Brossard, Québec J4X 2J7 (CA). **TOOHER, J. Patrick**; 1200 Pauline-Julien, Unit 35, Montreal, Québec H2J 0A2 (CA). **COMSA, Virgil**; 609, rue Fleury East, Montreal, Québec H2C 1N7 (CA). **PANI, Diana**; 730 Lusignan, Apartment 4, Montreal, Québec H3C 1Y9 (CA). **TERRY, Stephen E.**; 15 Summit Avenue, Northport, New York 11768 (US).

(74) Agent: **LA BARR, Edward T.**; Volpe and Koenig, P.C., 30 S. 17th Street, United Plaza, Philadelphia, Pennsylvania 19103 (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, BN, 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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,

[Continued on next page]

(54) Title: UPLINK TRANSMISSIONS IN WIRELESS COMMUNICATIONS

(57) Abstract: Methods and devices for offloading and/or aggregation of resources to coordinate uplink transmissions when interacting with different schedulers are disclosed herein. A method in a WTRU includes functionality for coordinating with a different scheduler for each eNB associated with the WTRU's configuration. Disclosed methods include autonomous WTRU grant selection and power scaling, and dynamic prioritization of transmission and power scaling priority.

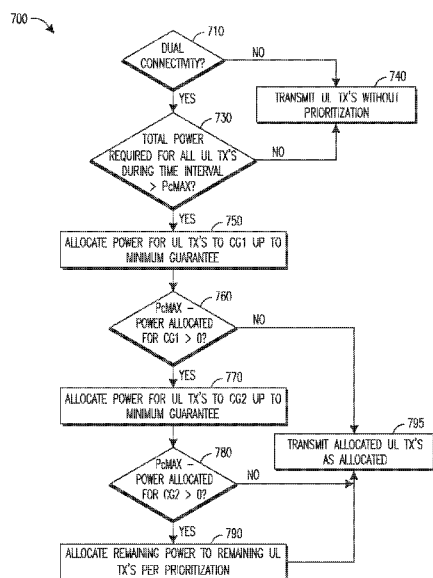


FIG. 7



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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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:

(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,

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*