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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 October 2010 (07.10.2010)

PCT

(10) International Publication Number
WO 2010/112236 A1

(51) International Patent Classification:
H04W 72/12 (2009.01) *H04W 74/08* (2009.01)

(21) International Application Number:
PCT/EP2010/002118

(22) International Filing Date:
1 April 2010 (01.04.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09005010.5 3 April 2009 (03.04.2009) EP

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(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 (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).

Published:

— *with international search report (Art. 21(3))*

(54) **Title**: BUFFER STATUS REPORTING IN A MOBILE COMMUNICATION SYSTEM

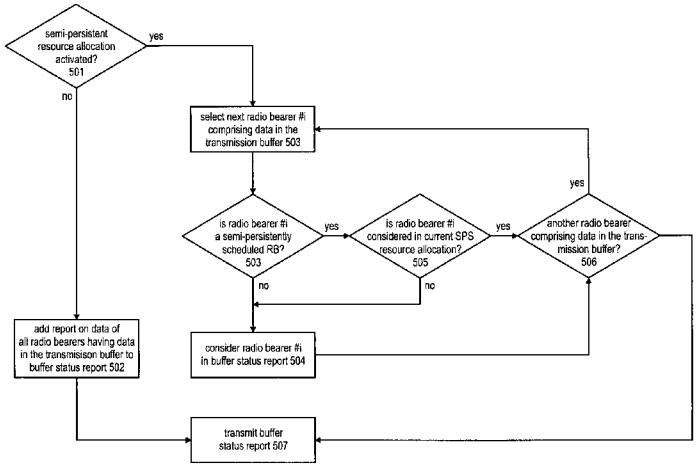


Fig. 5

(57) **Abstract**: The invention relates to methods for transmitting a buffer status report (BSR) in a mobile communication system, more particularly to the definition of rules for triggering, generating and transmitting buffer status reports. The invention also relates to a data transmission method utilizing new rules to decide data of which radio bearers is transmitted within a given transmission time interval. Moreover, the invention relates to scheduling method for radio resources that is taking into account additional scheduling- relevant information from the buffer status reporting and/or data transmission method. To avoid unnecessary grants from the network and to suggest an advanced handling of data transmissions the invention suggests a buffer status reporting and data transmission schemes that take into account the scheduling mode of data of radio bearers pending for transmission to decide whether to report on it in a buffer status report, respectively, whether to multiplex the data to a transport block for transmission.

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