

(51) International Patent Classification:
H04L 5/00 (2006.01) *H04B 1/69* (2011.01)(21) International Application Number:
PCT/SE2011/050052(22) International Filing Date:
18 January 2011 (18.01.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/295,885 18 January 2010 (18.01.2010) US(71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET LM ERICSSON (publ)
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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 (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, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— 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))

(54) Title: RADIO BASE STATION AND USER EQUIPMENT AND METHODS THEREIN

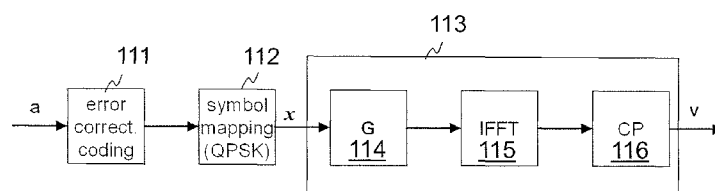


Fig. 11

(57) **Abstract:** Embodiments herein relate to a method in a user equipment (10) for transmitting uplink control information in time slots in a subframe over a radio channel to a radio base station. The radio channel is arranged to carry uplink control information and the user equipment and radio base station are comprised in a radio communications network. The uplink control information is comprised in a block of bits. The user equipment maps the block of bits to a sequence of complex valued modulation symbols. The user equipment also block spreads the sequence of complex valued modulation symbols across Discrete Fourier Transform Spread - Orthogonal Frequency Division Multiplexing (DFTS-OFDM) symbols. This is performed by applying a spreading sequence to the sequence of complex valued modulation symbols, to achieve a block spread sequence of complex valued modulation symbols. The user equipment further transforms the block-spread sequence of complex valued modulation symbols per DFTS-OFDM symbol. This is performed by applying a matrix that depends on a DFTS-OFDM symbol index and/or slot index to the block-spread sequence of complex valued modulation symbols. The user equipment also transmits the block spread sequence of complex valued modulation symbols that has been transformed over the radio channel to the radio base station.