

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
25 September 2008 (25.09.2008)

PCT

(10) International Publication Number  
**WO 2008/115114 A3**

(51) International Patent Classification:

*H04L 1/00* (2006.01) *H04Q 7/22* (2006.01)  
*H04L 12/56* (2006.01)

(21) International Application Number:

PCT/SE2008/000184

(22) International Filing Date: 7 March 2008 (07.03.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/895,342 16 March 2007 (16.03.2007) US

(71) Applicant (for all designated States except US): **TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)**  
[SE/SE]; S-164 83 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DIACHINA, John**  
[CA/US]; 505 Kristin Drive, Garner, NC 27529 (US).  
**ERIKSSON, Stefan** [SE/SE]; Grundtvigsgatan 5 NB,  
S-168 48 Bromma (SE).

(74) Agent: **NILSSON, Charlotte**; Ericsson AB, Patent Unit  
3G, S-164 80 Stockholm (SE).

(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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

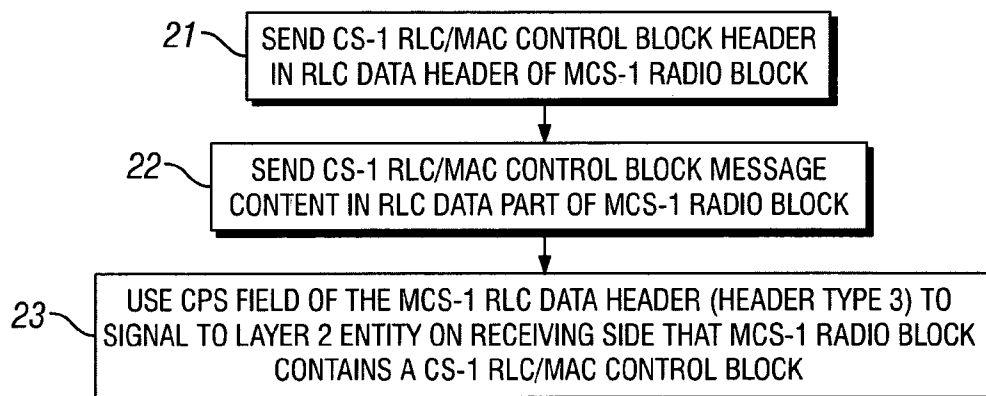
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: DETECTING THE PRESENCE OF CODING SCHEME CS-1 RLC/MAC CONTROL MESSAGE



**FIG. 4**

(57) Abstract: A method of transmitting a downlink, coding scheme CS-1 RLC/MAC control message from a BSS to an EGPRS MS (61), and receiving and detecting the CS-1 RLC/MAC control message in the MS. The BSS places in an MCS-1 radio block, a CS-1 RLC/MAC control block identical to a coding scheme CS-1 RLC/MAC control message excluding the MAC header octet. The BSS also places a coding scheme CS-4 stealing bit code word in the radio block using legacy stealing bit values and positions. The CPS field (26) of the block header (25) indicates that the radio block contains a CS-1 RLC/MAC control message. The MS receives the radio block and detects the coding scheme CS-4 stealing bit code word. In response, the MS interprets the received radio block header to identify the CPS field. The MS determines from the CPS field that a CS-1 RLC/MAC control block has been received.

WO 2008/115114 A3



- 
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*      — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*
- *of inventorship (Rule 4.17(iv))*

**Published:**

- *with international search report*

**(88) Date of publication of the international search report:**

6 November 2008