

(51) International Patent Classification:
H04L 1/00 (2006.01) *H04B 1/69* (2006.01)**BLACK, Peter, John** [AU/US]; 5775 Morehouse Drive,
San Diego, CA 92121 (US).(21) International Application Number:
PCT/US2009/049365(74) **Agent: VO, Dang, M.**; International Ip Administration,
5775 Morehouse Drive, San Diego, CA 92121 (US).(22) International Filing Date:
1 July 2009 (01.07.2009)(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, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) **Priority Data:**
61/078,648 7 July 2008 (07.07.2008) US
12/175,137 17 July 2008 (17.07.2008) US(71) **Applicant** (*for all designated States except US*): **QUALCOMM INCORPORATED** [US/US]; International Ip Administration, 5775 Morehouse Drive, San Diego, CA 92121 (US).(72) **Inventors; and**(75) **Inventors/Applicants** (*for US only*): **SHI, Jun** [CN/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **EKBAL, Amal** [IN/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **JULIAN, David, Jonathan** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US).(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, 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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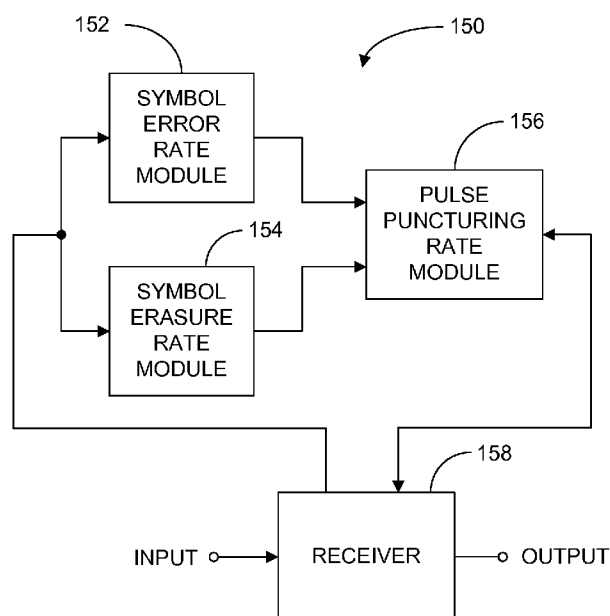
(54) **Title:** SYSTEM AND METHOD OF PUNCTURING PULSES IN A RECEIVER OR TRANSMITTER

FIG. 1B

(57) **Abstract:** An apparatus for data communication that receives a plurality of pulses from a remote communications device, determines a pulse puncturing rate based on the pulses, and punctures or discards subsequent pulses based on the pulse puncturing rate. During intervals when punctured pulses are expected, the apparatus operates in a lower power consumption mode for the purpose of conserving power. In another aspect, a receiving apparatus determines the pulse puncturing rate based on received pulses, and transmits the pulse puncturing rate information to a transmitting apparatus. In response, the transmitting apparatus sends a subset of the pulses it would have transmitted based on the pulse puncturing rate. Because the receiving apparatus receives fewer pulses (e.g., a subset), the receiving apparatus may operate in a lower power consumption mode for longer periods in order to conserve power. Similarly, because the transmitting apparatus sends fewer pulses, it may also operate in a lower power consumption mode for longer periods.

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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