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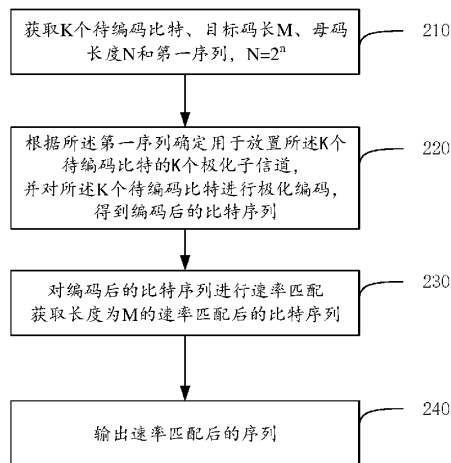
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(54) Title: POLAR CODE ENCODING/DECODING METHOD AND APPARATUS

(54) 发明名称: 一种 Polar 码编解码方法及装置



210 OBTAIN K BITS TO BE ENCODED, A TARGET CODE LENGTH M, A MOTHER CODE LENGTH N, AND A FIRST SEQUENCE WHEREIN $N=2^n$
220 DETERMINE, ACCORDING TO THE FIRST SEQUENCE, K POLARIZED SUB-CHANNELS FOR PLACING SAID K BITS AND PERFORM POLAR ENCODING ON SAID K BITS TO OBTAIN AN ENCODED BIT SEQUENCE
230 PERFORM RATE MATCHING ON THE ENCODED BIT SEQUENCE TO OBTAIN A RATE-MATCHED BIT SEQUENCE HAVING A LENGTH OF M
240 OUTPUT THE RATE-MATCHED SEQUENCE

图 2

(57) Abstract: Disclosed in the present application are a polar encoding method and apparatus for wireless communications, and a medium, capable of satisfying the transmission of large data volume and improving system throughput. The method comprises: obtaining K bits to be encoded and obtaining a mother code length N and a first sequence, the first sequence comprising serial numbers of N polarized sub-channels, and the serial numbers of the N polarized sub-channels being arranged in the first sequence according to the reliability of the N polarized sub-channels, wherein $N=2^n$, $K \leq N$, and K, n, and N are positive integers; and determining, according to the first sequence, K polarized sub-channels for placing said K bits and performing polar encoding on said K bits to obtain an encoded sequence and output same.

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- (81) 指定国(除另有指明, 要求每一种可提供的国家保护): 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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW。
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本国际公布:

- 包括国际检索报告(条约第21条(3))。

(57) 摘要: 本申请公开了一种用于无线通信中的极化编码的方法、装置和介质, 能够满足大数据量的传输, 提高系统的吞吐量。该方法包括: 获取用于K个待编码比特, 获取母码长度N和第一序列, 所述第一序列中包含N个极化子信道的序号, 所述N个极化子信道的序号在所述第一序列中是按照所述N个极化子信道的可靠度进行排列的, $N=2n$, $K \leq N$, K、n和N为正整数; 根据所述第一序列确定用于放置所述K个待编码比特的K个极化子信道并对所述K个待编码比特进行极化编码, 得到编码后的序列并输出。