(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国 际 局

(43) 国际公布日
2025 年 10 月 2 日 (02.10.2025)

WIPO | PCT

(10) 国际公布号
WO 2025/199773 A1

(51) 国际专利分类号:
H04N 19/102 (2014.01) *H04N 19/159* (2014.01)

(21) 国际申请号: PCT/CN2024/083935

(22) 国际申请日: 2024 年 3 月 26 日 (26.03.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(71) 申请人: **OPPO** 广东移动通信有限公司 **(GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.)** [CN/CN]; 中国广东省东莞市长安镇乌沙海滨路18号 523860 (CN)。

(72) 发明人:张莱**(ZHANG, Lai)**; 中国广东省东莞市长安镇乌沙海滨路18号 523860 (CN)。

(74) 代理人: 北京派特恩知识产权代理有限公司**(CHINA PAT INTELLECTUAL PROPERTY OFFICE)**; 中国北京市海淀区苏州街3号大恒科技大厦南座五层503 100080 (CN)。

(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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。

(84) 指定国(除另有指明，要求每一种可提供的地区保护): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG)。

本国际公布:
— 包括国际检索报告(条约第21条(3))。

(54) **Title:** ENCODING METHOD, DECODING METHOD, CODE STREAM, ENCODER, DECODER, AND STORAGE MEDIUM

(54) 发明名称: 编解码方法、码流、编码器、解码器以及存储介质

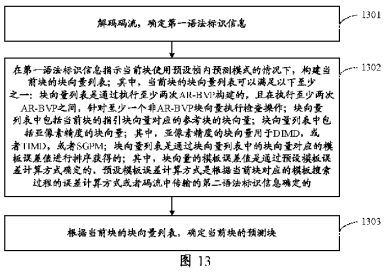

图 13

1301 Parse a code stream, determine first syntax flag information

1302 When the first syntax flag information indicates that a current block uses a preset intra prediction mode, construct a block vector list of the current block, wherein the block vector list of the current block satisfies at least one of the following: the block vector list being constructed by means of executing at least two instances of AR-BVP, and between the execution of the at least two instances of AR-BVP, executing an inspection operation for at least one non-AR-BVP block vector; the block vector list comprises a block vector of a reference block corresponding to a guide block vector of the current block; the block vector list comprises block vectors with sub-pixel precision; the block vectors with sub-pixel precision being used for DIMD or TIMD or SGPM; and the block vector list is obtained by means of sorting template error values corresponding to the block vectors in the block vector list, the template error values of the block vectors being determined by means of a preset template error calculation mode, which is determined on the basis of an error calculation mode during a template search process corresponding to the current block or second syntax flag information transmitted in the code stream

1303 On the basis of the block vector list of the current block, determine a prediction block of the current block

(57) Abstract: Disclosed in the present application are an encoding method, a decoding method, a code stream, an encoder, a decoder, and a storage medium. The decoding method comprises: when a current block uses a preset intra prediction mode, constructing a block vector list of the current block; and on the basis of the block vector list of the current block, determining a prediction block of the current block, wherein the block vector list of the current block satisfies at least one of the following: the block vector list being constructed by means of executing at least two instances of AR-BVP, and between the execution of the at least two instances of AR-BVP, executing an inspection operation for at least one non-AR-BVP block vector; the block vector list comprises a block vector of a reference block corresponding to a guide block vector of the current block; the block vector list comprises block vectors with sub-pixel precision, the block vectors with sub-pixel precision being used for DIMD or TIMD or SGPM; and the block vector list is obtained by means of sorting template error values corresponding to the block vectors in the block vector list, the template error values of the block vectors being determined by means of a preset template error calculation mode, which is determined on the basis of an error calculation mode during a template search process corresponding to the current block or second syntax flag information transmitted in a code stream.

WO 2025/199773 A1

[见续页]

WO 2025/199773 A1

(57) 摘要: 本申请公开了一种编解码方法、码流、编码器、解码器以及存储介质，该方法包括：在当前块使用预设帧内预测模式的情况下，构建当前块的块向量列表；根据当前块的块向量列表，确定当前块的预测块；其中，当前块的块向量列表满足以下至少之一：块向量列表是通过执行至少两次AR-BVP构建的，且在执行所述至少两次AR-BVP之间，针对至少一个非AR-BVP块向量执行检查操作；块向量列表中包括当前块的指引块向量对应的参考块的块向量；块向量列表中包括亚像素精度的块向量；其中，亚像素精度的块向量用于DIMD，或者TIMD，或者SGPM；块向量列表是通过块向量列表中的块向量对应的模板误差值进行排序获得的；其中，块向量的模板误差值是通过预设模板误差计算方式确定的，预设模板误差计算方式是根据当前块对应的模板搜索过程的误差计算方式或者码流中传输的第二语法标识信息确定的。