



- (51) **International Patent Classification:**
H04N 19/11 (2014.01) *H04N 19/70* (2014.01)
H04N 19/13 (2014.01)
- (21) **International Application Number:**
PCT/CN2020/080650
- (22) **International Filing Date:**
23 March 2020 (23.03.2020)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
62/822,865 23 March 2019 (23.03.2019) US
62/824,282 26 March 2019 (26.03.2019) US
62/824,360 27 March 2019 (27.03.2019) US
- (71) **Applicant:** HUAWEI TECHNOLOGIES CO., LTD.
[CN/CN]; Huawei Administration Building, Bantian, Long-
gang District, Shenzhen, Guangdong 518129 (CN).
- (72) **Inventors:** WANG, Biao; Riesstr.25, 80992 Munich (DE).
ESENLIK, Semih; Riesstr.25, 80992 Munich (DE). KO-
TRA, Anand Meher; Riesstr.25, 80992 Munich (DE).
GAO, Han; Riesstr.25, 80992 Munich (DE). CHEN, Jian-
le; 2330 Central Expressway, Santa Clara, California 95050
(US).
- (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, 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, 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,

(54) **Title:** AN ENCODER, A DECODER AND CORRESPONDING METHODS FOR INTRA PREDICTION

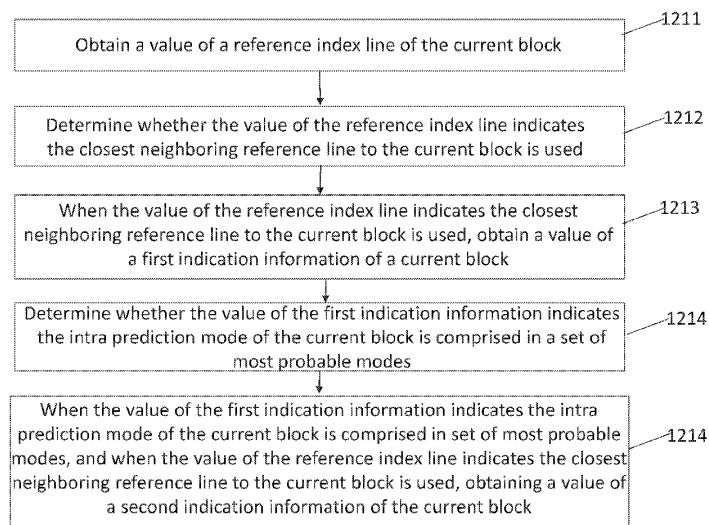


Fig. 12B

(57) **Abstract:** Devices and methods for Intra prediction are provided. The method includes: obtaining a value of a first indication information of a current block, the value of the first indication information indicating whether an intra prediction mode of the current block is comprised in a set of most probable modes; and obtaining a value of a reference index line of the current block. When the value of the first indication information indicates the intra prediction mode of the current block is comprised in the set of most probable modes, and when the value of the reference index line indicates the closest neighboring reference line to the current block is used, the method further includes obtaining a value of a second indication information of the current block, the value of the second indication information indicating whether the intra prediction mode of the current block is Planar mode or not. The method can improve the efficiency to determine the intra prediction mode of the current block.

[Continued on next page]

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) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, KM, ML, MR, NE, SN, TD, TG).

Published:

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