



(51) International Patent Classification:
H04N 7/34 (2006.01) *H04N 7/32* (2006.01)

(21) International Application Number:
PCT/KR2011/005214

(22) International Filing Date:
15 July 2011 (15.07.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/364,986 16 July 2010 (16.07.2010) US
10-2010-0097424 6 October 2010 (06.10.2010) KR

(71) Applicant (for all designated States except US): **SAM-SUNG ELECTRONICS CO., LTD.** [KR/KR]; 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742 (KR).

(72) Inventors: **MIN, Jung-Hye**; 1004-704 Bangjuk Maeul Yeongtong Tranchae Apt., Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-745 (KR). **LEE, Sun-Il**; 105-1201 Poonglim Apt., Pungdeokcheon 1-dong, Sujigu, Yongin-si, Gyeonggi-do 448-766 (KR). **HAN, Woo-Jin**; 102-1104 Acropark Apt., 296-6 Woncheon-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-774 (KR).

(74) Agent: **Y.P.LEE, MOCK & PARTNERS**; Koryo Building, 1575-1 Seocho-dong, Seocho-gu, Seoul 137-875 (KR).

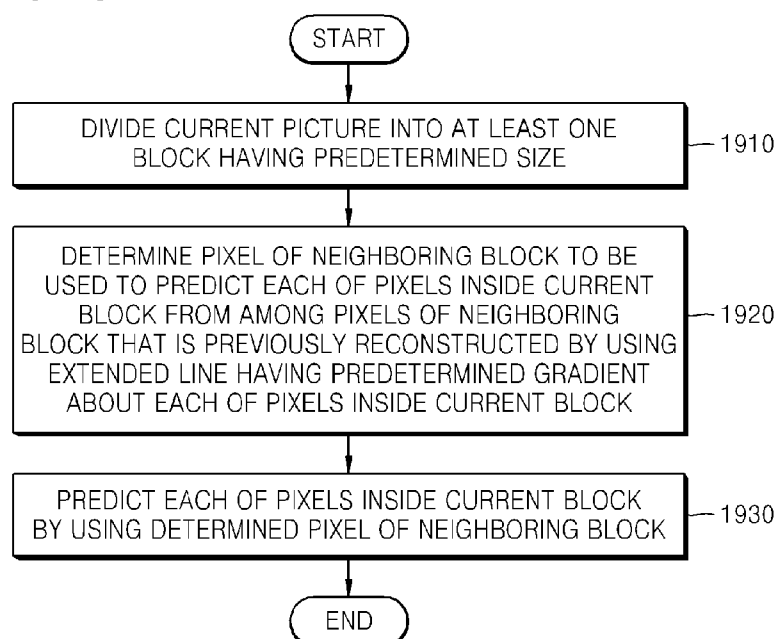
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, 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, TH, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR ENCODING AND DECODING IMAGE THROUGH INTRA PREDICTION

[Fig. 19]



(57) Abstract: A method and apparatus for encoding and decoding an image through intra prediction using a pixel of the neighboring block along an extended line having a predetermined gradient about a pixel inside the current block.



Published:

- *without international search report and to be republished
upon receipt of that report (Rule 48.2(g))*