



(51) International Patent Classification:
H04N 7/32 (2006.01) *H04N 7/26* (2006.01)
H04N 7/36 (2006.01)

(21) International Application Number:
PCT/KR2011/004969

(22) International Filing Date:
7 July 2011 (07.07.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/362,829 9 July 2010 (09.07.2010) US
61/367,952 27 July 2010 (27.07.2010) US
10-2011-0006486 21 January 2011 (21.01.2011) 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: **LEE, Tammy**; A-707 Trapalace Apt., 1344-13 Seocho-dong, Seocho-gu, Seoul 137-070 (KR). **HAN, Woo-Jin**; 102-1104 Acropark Apt., 296-6 Woncheon-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-714 (KR). **KIM, Il-Koo**; 109-1903 GS Xi Apt., Cheongho-dong, Osan-si, Gyeonggi-do 447-756 (KR). **LEE, Sun-Il**; 105-1201 Poonglim Apt., Pungdeokcheon 1-dong, Suji-gu, Yongin-si, Gyeonggi-do 448-171 (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.

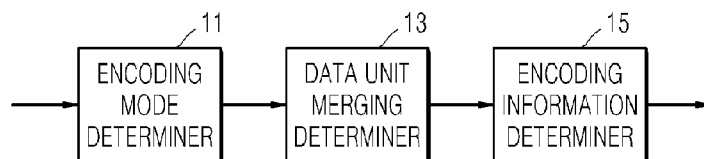
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, 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).

Published:

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

(54) Title: METHOD AND APPARATUS FOR ENCODING VIDEO BY USING BLOCK MERGING, AND METHOD AND APPARATUS FOR DECODING VIDEO BY USING BLOCK MERGING

[Fig. 1]



(57) Abstract: The method of encoding includes: determining an encoding mode indicating a current data unit for encoding of a picture and an encoding method including prediction encoding performed for the current data unit; determining an occurrence of merging with at least one neighboring data unit based on at least one of the encoding mode and a prediction mode; and determining prediction mode information, merging related information, and prediction related information, and determining encoding information of the data unit including the prediction mode information, the merging related information, and the prediction related information.

