(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 April 2009 (30.04.2009)

PCT

(10) International Publication Number
WO 2009/054840 A2

(51) International Patent Classification: Not classified

(21) International Application Number:
PCT/US2007/081129

(22) International Filing Date: 11 October 2007 (11.10.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

| | | |
|---|---|---|
| 60/829,274 | 12 October 2006 (12.10.2006) | US |
| 60/829,276 | 12 October 2006 (12.10.2006) | US |
| 60/883,741 | 5 January 2007 (05.01.2007) | US |
| 11/868,009 | 5 October 2007 (05.10.2007) | US |

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, KR, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

*[Continued on next page]*

(54) Title: REFINEMENT COEFFICIENT CODING BASED ON HISTORY OF CORRESPONDING TRANSFORM COEFFICIENT VALUES

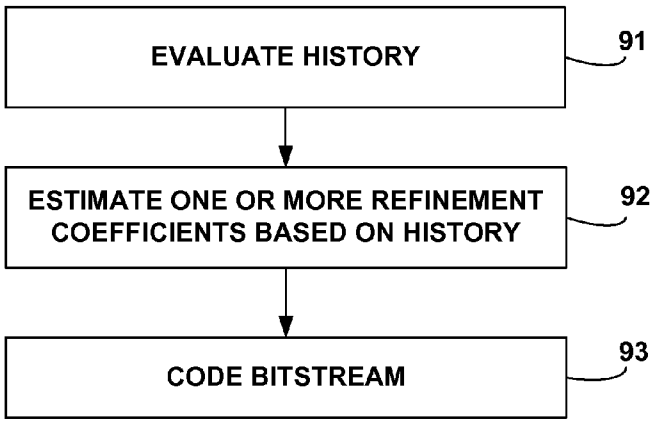



FIG. 8

(57) Abstract: This disclosure describes techniques for coding of refinement coefficients of an enhancement layer in a scalable video coding (SVC) scheme. According to this disclosure, a method may comprise evaluating a history of transform coefficient values associated with one or more previous layers of the SVC scheme, and estimating one or more refinement coefficient values associated with a current layer of the SVC scheme based on the history. On the encoding side, the coding process may include excluding information for one or more refinement coefficient values from the bitstream and signaling to the decoder that such information is excluded from the bitstream. On the decoding side, coding process include parsing the bitstream to identify information that signals to the decoder that information is excluded from the bitstream, and generating such information based on the history associated with one or more previous layers of the SVC scheme.

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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

**Published:**

— *without international search report and to be republished upon receipt of that report*

— *with information concerning incorporation by reference of missing parts and/or elements*