

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 May 2008 (29.05.2008)

PCT

(10) International Publication Number
WO 2008/063687 A2

(51) International Patent Classification: **Not classified**

(21) International Application Number:
PCT/US2007/065940

(22) International Filing Date: 4 April 2007 (04.04.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/789,443 4 April 2006 (04.04.2006) US
11/696,071 3 April 2007 (03.04.2007) US

(71) Applicant (for all designated States except US): **QUALCOMM INCORPORATED** [US/US]; Attn: International Ip Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHI, Fang** [CA/US]; 4460 Calle Mar De Armonia, San Diego, California 92130 (US). **OGUZ, Seyfullah, Halit** [TR/US]; 5240 Fiore Terrace, #417, San Diego, California 92122 (US). **RAVEENDRAN, Vijayalakshmi, R.** [IN/US]; 4272 Calle Mar De Ballenas, San Diego, California 92130 (US).

(74) Agent: **OGROD, Gregory, D.**; Attn: International Ip Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).

(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, 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.

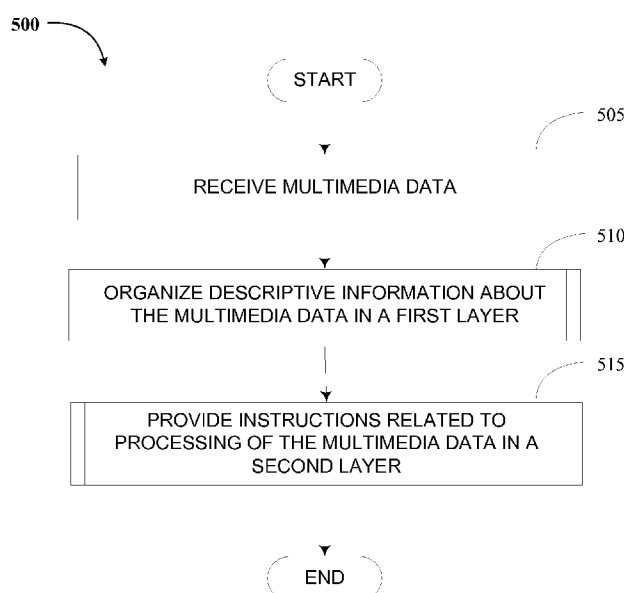
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT,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



(57) Abstract: Apparatus and method to decode video data while maintaining a target video quality using an integrated error control system including error detection, resynchronization and error recovery are described. Robust error control can be provided by a joint encoder-decoder functionality including multiple error resilience designs. In one aspect, error recovery may be an end-to-end integrated multi-layer error detection, resynchronization and recovery mechanism designed to achieve reliable error detection and error localization. The error recovery system may include cross-layer interaction of error detection, resynchronization and error recovery subsystems. In another aspect, error handling of a scalable coded bitstream is coordinated across a base-layer and enhancement layer of scalable compressed video.

WO 2008/063687 A2



-
- *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*