

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 December 2005 (22.12.2005)

PCT

(10) International Publication Number
WO 2005/122408 A1

(51) International Patent Classification⁷: **H03M 1/00**

(21) International Application Number:
PCT/SG2004/000169

(22) International Filing Date: 7 June 2004 (07.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 20 Biopolis Way, #07-01 Centros, Singapore 138668 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YU, Rongshan** [CN/SG]; Blk 168 Boon Lay Drive, #07-621, Singapore 640168 (SG). **RAHARDJA, Susanto** [IN/SG]; 10A

Braddell Hill, #22-02, Singapore 579720 (SG). **LIN, Xiao** [SG/SG]; Blk 117 Bukit Batok West Ave 6, #18-238, Singapore 650117 (SG).

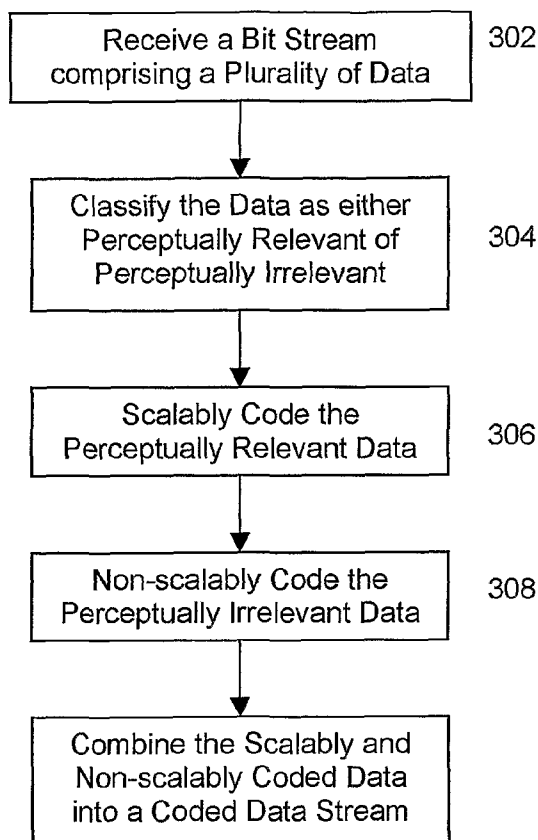
(74) Agent: **VIERING, JENTSCHURA & PARTNER**; P.O. Box 1088, Rochor Post Office, Rochor Road, Singapore 911833 (SG).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, 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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR SCALABLY ENCODING AND DECODING DATA



(57) Abstract: Systems and methods for scalably encoding and decoding coded data are presented. One exemplary method for scalably coding data includes classifying, based upon at least one predetermined criteria, each of the plurality of data received as either (i) perceptually relevant data or (ii) perceptually irrelevant data. The perceptually relevant data is scalably coded, and the perceptually irrelevant data is non-scalably coded. Subsequently, the scalably coded perceptually relevant data and the non-scalably coded perceptually irrelevant are combined into a coded data stream for transmission.

WO 2005/122408 A1



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, IT, LU, MC, 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).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.