



- (51) **International Patent Classification:**
H04N 7/26 (2006.01) *H03M 7/40* (2006.01)
- (21) **International Application Number:**
PCT/EP2012/063929
- (22) **International Filing Date:**
16 July 2012 (16.07.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/508,477 15 July 2011 (15.07.2011) US
- (71) **Applicant (for all designated States except US):** **FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.** [DE/DE]; Hansastraße 27c, 80686 München (DE).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **GEORGE, Valerie** [DE/DE]; John-Sieg-Str. 24, 10365 Berlin (DE). **HENKEL, Anastasia** [RU/DE]; Fahrenheitstrasse 8, 10245 Berlin (DE). **KIRCHHOFFER, Heiner** [DE/DE]; Gotzkowskystr. 5, 10555 Berlin (DE). **MARPE, Detlev** [DE/DE]; Südwestkorso 70, 12161 Berlin (DE). **SCHIERL, Thomas** [DE/DE]; Dunckerstrasse 72, 10437 Berlin (DE).
- (74) **Agents:** **SCHENK, Markus** et al.; Schoppe, Zimmermann, Stöckeler & Zinkler, P. O. Box 246, 82043 Pullach (DE).
- (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, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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:**
— with international search report (Art. 21(3))

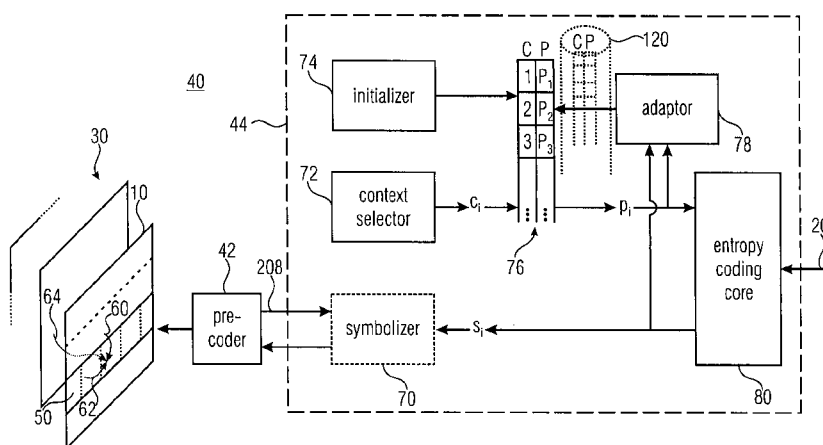
(54) **Title:** SAMPLE ARRAY CODING FOR LOW-DELAY

FIGURE 1

(57) **Abstract:** The entropy coding of a current part of a predetermined entropy slice is based on, not only, the respective probability estimations of the predetermined entropy slice as adapted using the previously coded part of the predetermined entropy slice, but also probability estimations as used in the entropy coding of a spatially neighboring, in entropy slice order preceding entropy slice at a neighboring part thereof. Thereby, the probability estimations used in entropy coding are adapted to the actual symbol statistics more closely, thereby lowering the coding efficiency decrease normally caused by lower-delay concepts. Temporal interrelationships are exploited additionally or alternatively.