



(51) International Patent Classification:

*H04N 19/50* (2014.01) *H04N 19/186* (2014.01)  
*H04N 19/30* (2014.01) *H04N 19/463* (2014.01)

(21) International Application Number:

PCT/EP2014/055333

(22) International Filing Date:

17 March 2014 (17.03.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

|            |                              |    |
|------------|------------------------------|----|
| 13305453.6 | 8 April 2013 (08.04.2013)    | EP |
| 13306010.3 | 15 July 2013 (15.07.2013)    | EP |
| 14305109.2 | 27 January 2014 (27.01.2014) | EP |

(71) Applicant: **THOMSON LICENSING** [FR/FR]; 1-5 rue Jeanne d'Arc, F-92130 Issy-les-Moulineaux (FR).

(72) Inventors: **BORDES, Philippe**; c/o Technicolor R&D France, 975 avenue des Champs Blancs, CS17616, F-35576 Cesson-Sévigné (FR). **ANDRIVON, Pierre**; c/o

Technicolor R&D France, 975 avenue des Champs Blancs, CS17616, F-35576 Cesson-Sévigné (FR). **JOLLY, Emmanuel**; c/o Technicolor R&D France, 975 avenue des Champs Blancs, CS17616, F-35576 Cesson-Sévigné (FR).

(74) Agents: **LORETTE, Anne** et al.; Thomson Licensing, 1-5 rue Jeanne d'Arc, F-92130 Issy-Les-Moulineaux (FR).

(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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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,

[Continued on next page]

(54) Title: METHOD FOR ENCODING AND METHOD FOR DECODING A LUT AND CORRESPONDING DEVICES

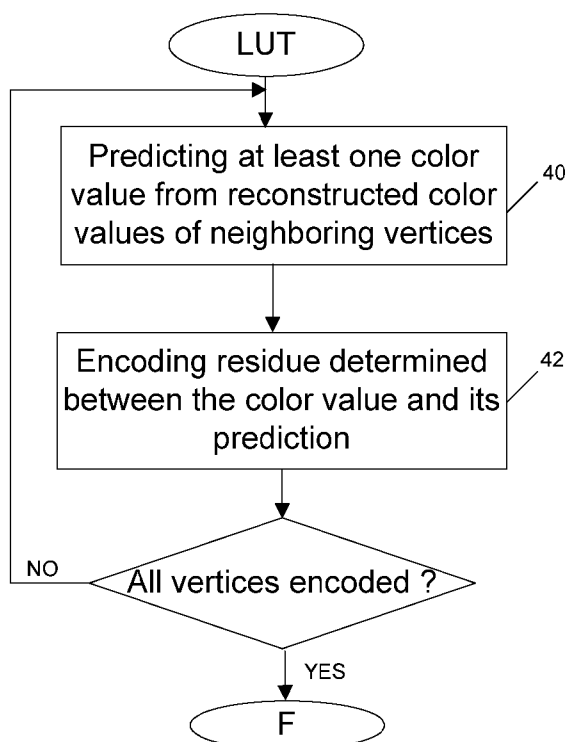


FIGURE 4

(57) Abstract: A method for encoding a LUT defined as a lattice of vertices is disclosed. At least one value is associated with each vertex of the lattice. The method comprises for a current vertex: predicting the at least one value associated with said current vertex from another value which is for example obtained from reconstructed values associated with neighboring vertices; and encoding in a bitstream at least one residue computed between the at least one value of the current vertex and its prediction in a bitstream.



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, KM, 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))*

**Published:**

— *with international search report (Art. 21(3))*