

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
22 March 2018 (22.03.2018)



(10) International Publication Number
WO 2018/053293 A1

(51) International Patent Classification:

H04N 19/176 (2014.01) *H04N 19/186* (2014.01)
H04N 19/147 (2014.01) *H04N 19/80* (2014.01)
H04N 19/46 (2014.01) *H04N 19/13* (2014.01)
H04N 19/593 (2014.01) *H04N 19/157* (2014.01)
H04N 19/132 (2014.01)

(21) International Application Number:

PCT/US2017/051821

(22) International Filing Date:

15 September 2017 (15.09.2017)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/395,145 15 September 2016 (15.09.2016) US
15/705,029 14 September 2017 (14.09.2017) US

(71) Applicant: **QUALCOMM INCORPORATED** [US/US];
ATTN: International IP Administration, 5775 Morehouse
Drive, San Diego, California 92121-1714 (US).

(72) Inventors: **ZHANG, Kai**; 5775 Morehouse Drive, San
Diego, California 92121-1714 (US). **CHEN, Jianle**; 5775
Morehouse Drive, San Diego, California 92121-1714 (US).
ZHANG, Li; 5775 Morehouse Drive, San Diego, California

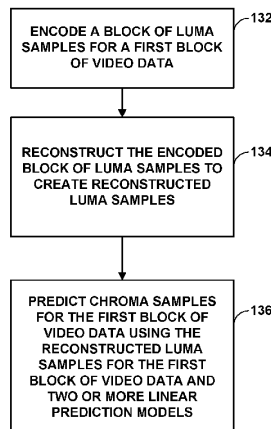
92121-1714 (US). **KARCZEWICZ, Marta**; 5775 More-
house Drive, San Diego, California 92121-1714 (US).

(74) Agent: **EVANS, Matthew J.**; Shumaker & Sieffert, P.A.,
1625 Radio Drive, Suite 300, Woodbury, Minnesota 55125
(US).

(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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
KR, KW, KZ, LA, LC, LK, LR, LS, 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,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, 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,

(54) Title: LINEAR MODEL CHROMA INTRA PREDICTION FOR VIDEO CODING



(57) Abstract: A method of decoding video data, including receiving an encoded block of luma samples for a first block of video data, decoding the encoded block of luma samples to create reconstructed luma samples, and predicting chroma samples for the first block of video data using the reconstructed luma samples for the first block of video data and two or more linear prediction models.

FIG. 18

WO 2018/053293 A1

[Continued on next page]

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*