



New connection on: : 14-02-2018 : 23:15:30 - Last disconnection on: : 14-02-2018 : 04:36:37

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[No database/cluster active] ..fi

Select a database: ..FI EPODOC

 Database: EPODOC

[EPODOC: SS 1] (video d1 encoder) or (image d1 encoder)

Results in EPODOC 0

EPODOC: term 'VIDEO D1 ENCODER' not found in index 'BI'. WARNING(1)

 1 similar messages

[SS 2] video and encoder

Results in EPODOC 15.737

[SS 3] 2 and decoder

Results in EPODOC 5.891

[SS 4] 3 and color

Results in EPODOC 368

[SS 5] 4 and space

Results in EPODOC 60

[SS 6] 5 and bit

Results in EPODOC 13

[SS 7] 6 and depths

Results in EPODOC 4

[SS 8] ..li



PR - US201461953573P
20140314; US201461981645P
20140418; US201462062637P
20141010; US201514656526
20150312; WO2015US20535
20150313

AP - MX20160011210 20150313

DT - I

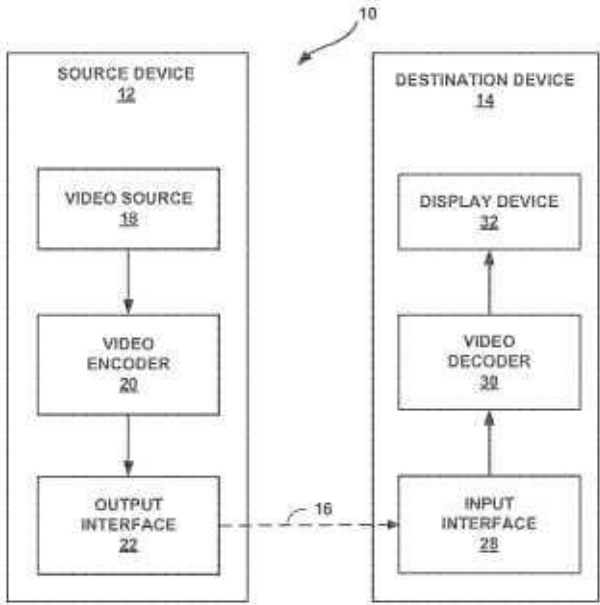
CCI - [H04N19/176](#) ; [H04N19/70](#) ;
[H04N19/134](#) ; [H04N19/102](#) ;
[H04N19/126](#) ; [H04N19/14](#) ;
[H04N19/186](#) ; [H04N19/157](#) ;
[H04N19/18](#) ; [H04N19/184](#)

CUI - [H04N19/196](#) ; [H04N19/61](#) ;
[H04N19/60](#) ; [H04N19/11](#) ;
[H04N19/103](#) ; [H04N19/12](#) ;
[H04N19/136](#) ; [H04N19/154](#) ;
[H04N19/44](#) ; [H04N19/33](#)

PA - QUALCOMM INC [US]

TI - MODIFYING **BIT DEPTHS**
IN **COLOR-SPACE** TRANSFORM
CODING.

AB - In general, this disclosure
describes techniques for
coding **video** blocks using
a **color-space** conversion
process. A **video** coder, such as
a **video encoder** or a **video**
decoder, may determine a **bit**-
depth of a luma component of
the **video** data and a **bit**-depth of
a chroma component of
the **video** data. In response to
the **bit**-depth of the luma
component being different than
the **bit** depth of the chroma
component, the **video** coder may
modify one or both of the **bit**
depth of the luma component
and the **bit** depth of the chroma
component such that the **bit**
depths are equal. The **video**
coder may further apply
the **color-space** transform
process in encoding the **video**
data.



2/4 © EPODOC / EPO

PN - [CN106105204](#) A 20161109

PR - US201461953573P 20140314; US201461981645P 20140418; US201462062637P
20141010; US201514656526 20150312; WO2015US20535 20150313

AP - CN2015813061 20150313

DT - I

CCI - [H04N19/176](#) ; [H04N19/70](#) ; [H04N19/134](#) ; [H04N19/102](#) ; [H04N19/126](#) ; [H04N19/14](#) ;
[H04N19/186](#) ; [H04N19/157](#) ; [H04N19/18](#) ; [H04N19/184](#)

CUI - [H04N19/196](#) ; [H04N19/61](#) ; [H04N19/60](#) ; [H04N19/11](#) ; [H04N19/103](#) ; [H04N19/12](#) ;
[H04N19/136](#) ; [H04N19/154](#) ; [H04N19/44](#) ; [H04N19/33](#)

PA

- QUALCOMM INC

TI

- Modifying **bit depths** in **color-space** transform coding

AB

- In general, this disclosure describes techniques for coding **video** blocks using a **color-space** conversion process. A **video** coder, such as a **video encoder** or a **video decoder**, may determine a **bit**-depth of a luma component of the **video** data and a **bit**-depth of a chroma component of the **video** data. In response to the **bit**-depth of the luma component being different than the **bit** depth of the chroma component, the **video** coder may modify one or both of the **bit** depth of the luma component and the **bit** depth of the chroma component such that the **bit depths** are equal. The **video** coder may further apply the **color-space** transform process in encoding the **video** data.

3/4

© EPODOC / EPO

PN

- [US2015264402](#) A1 20150917

PR

- US201514656526
20150312; US201461953573P
20140314; US201461981645P
20140418; US201462062637P
20141010

AP

- US201514656526 20150312

DT

- **

CT

- || R141 (A1)
[US2013315493](#) A1 20131128 [] (SATO KAZUSHI [JP]);
[US2015117519](#) A1 20150430 [] (KIM WOO-SHIK [US], et al);
[US2016080751](#) A1 20160317 [] (XIU XIAOYU [US], et al)

CCI

- [H04N19/176](#) ; [H04N19/70](#) ;
[H04N19/134](#) ; [H04N19/102](#) ;
[H04N19/126](#) ; [H04N19/14](#) ;
[H04N19/186](#) ; [H04N19/157](#) ;
[H04N19/18](#) ; [H04N19/184](#)

CUI

- [H04N19/196](#) ; [H04N19/61](#) ;
[H04N19/60](#) ; [H04N19/11](#) ;
[H04N19/103](#) ; [H04N19/12](#) ;
[H04N19/136](#) ; [H04N19/154](#) ;
[H04N19/44](#) ; [H04N19/33](#)

PA

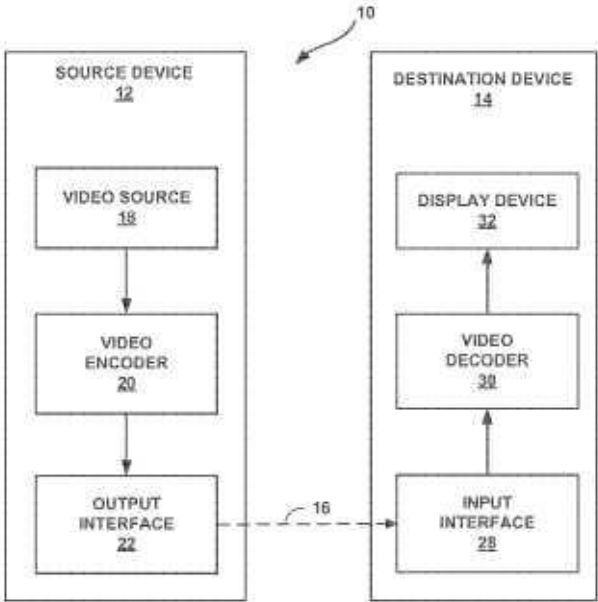
- QUALCOMM INC [US]

TI

- MODIFYING **BIT DEPTHS**
IN **COLOR-SPACE** TRANSFORM
CODING

AB

- In general, this disclosure describes techniques for coding **video** blocks using a **color-space** conversion process. A **video** coder, such as a **video encoder** or a **video decoder**, may determine a **bit**-depth of a luma component of the **video** data and a **bit**-depth of a chroma component of the **video** data. In response to the **bit**-depth of the luma component being different than the **bit** depth of the chroma component, the **video** coder may modify one or both of the **bit**



depth of the luma component
and the **bit** depth of the chroma
component such that the **bit**
depths are equal. The **video**
coder may further apply
the **color-space** transform
process in encoding the **video**
data.

4/4 © EPODOC / EPO

- PN - [WO2015138957](#) A2 20150917
- PNFP - WO2015138957 A3 20151105
- PR - US201461953573P 20140314; US201461981645P 20140418; US201462062637P 20141010; US201514656526 20150312
- AP - WO2015US20535 20150313
- DT - **
- CT - |EP| ISR (A3)
[XP004326797](#) A[IA];
[WO2015065979](#) A1 20150507 [E] (QUALCOMM INC [US])
[E] 1-3,8-14,19-33,38-44,49-52
* paragraph [0086] - paragraph [0089] *;
[XP055196650](#) A[XP];
[XP055005343](#) A[A];
[US2005259730](#) A1 20051124 [A] (SUN SHIJUN [US])
[A] 1-4,8-15,19-34,38-44,49-52
* paragraphs [0007] , [0009] , [0028] , [0030] *
* paragraphs [0035] - [0040] - [0042]; figures 4,5,12 *;
[US2006018559](#) A1 20060126 [A] (KIM WOOSHIK [KR], et al)
[A] 1-4,8-15,19-34,38-44,49-52
* paragraph [0013] - paragraph [0025]; figures 5,6 *;
[XP055196604](#) A[A];
[XP030114950](#) A[A];
[XP030116426](#) A[AP]
- CTNP - |EP| ISR (A3)
[IA] - RABBANI M ET AL, "An overview of the JPEG 2000 still image compression standard", SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, (20020101), vol. 17, no. 1, doi:[10.1016/S0923-5965\(01\)00024-8](#), ISSN 0923-5965, pages 3 - 48, XP004326797
[I] 1-3,8-14,19-33,38-44,49-52
* Section 2., initial part and sub-section 2.1 *
* Section 1, page 4, right-hand column, last 8 lines to page 5, left-hand column, line 5 *
* Section 5.2.1 *
* Section 6.3 *
[A] 4,15,34
[XP] - Bin Li ET AL, "Adaptive color transform for different luma and chroma bit-depth, Document JCTVC-S0180_r3", (20141023), pages 2015 - 6, URL: <http://phenix.int-evry.fr/jct/>, (20150617), XP055196650
[XP] 1-3,8-14,19-33,38-44,49-52
* abstract *
* Section 2.2 *
[A] - WOO-SHIK KIM ET AL, "RGB Video Coding Using Residual Color Transform", SAMSUNG JOURNAL OF INNOVATIVE TECHNOLOGY, (20050801), vol. 1, no. 1, pages 21 - 31, XP055005343
[A] 1-4,8-15,19-34,38-44,49-52
* Sections 1, 2.2, 3.2 and 4.1 *
[A] - Wei Dai ET AL, "RCE1: Adaptive Color Transforms for Range Extensions, Document JCTVC-M0048-r1", (20130420), pages 1 - 11, URL: <http://phenix.int-evry.fr/jct/>, (20150617), XP055196604

	[A] 1-4,8-15,19-34,38-44,49-52 * the whole document * [A] - FLYNN D ET AL, "Range Extensions Draft 4", 14. JCT-VC MEETING; 25-7-2013 - 2-8-2013; VIENNA; (JOINT COLLABORATIVE TEAM ON VIDEO CODING OF ISO/IEC JTC1/SC29/WG11 AND ITU-T SG.16); URL: HTTP://WFTP3.ITU.INT/AV-ARCH/JCTVC-SITE/,, (20130808), vol. HEVC, no. JCTVC-N1005-v3, XP030114950 [A] 1-4,8-15,19-34,38-44,49-52 * Annex E, from page 296 (after Table E-4) to page 299;; tables E-5 * * Annex D, section D.3.15 * [AP] - ZHANG L ET AL, "SCCE5 Test 3.2.1: In-loop color-space transform", 18. JCT-VC MEETING; 30-6-2014 - 9-7-2014; SAPPORO; (JOINT COLLABORATIVE TEAM ON VIDEO CODING OF ISO/IEC JTC1/SC29/WG11 AND ITU-T SG.16); URL: HTTP://WFTP3.ITU.INT/AV-ARCH/JCTVC-SITE/,, (20140620), no. JCTVC-R0147, XP030116426 [AP] 1-4,8-15,19-34,38-44,49-52 * abstract * * Sections 1 and 2 *
CCI	- H04N19/176 ; H04N19/70 ; H04N19/134 ; H04N19/102 ; H04N19/126 ; H04N19/14 ; H04N19/186 ; H04N19/157 ; H04N19/18 ; H04N19/184
CUI	- H04N19/196 ; H04N19/61 ; H04N19/60 ; H04N19/11 ; H04N19/103 ; H04N19/12 ; H04N19/136 ; H04N19/154 ; H04N19/44 ; H04N19/33
PA	- (A2 A3) QUALCOMM INC [US]
TI	- (A2 A3) MODIFYING BIT DEPTHS IN COLOR-SPACE TRANSFORM CODING
AB	- (A2 A3) In general, this disclosure describes techniques for coding video blocks using a color-space conversion process. A video coder, such as a video encoder or a video decoder , may determine a bit -depth of a luma component of the video data and a bit -depth of a chroma component of the video data. In response to the bit -depth of the luma component being different than the bit depth of the chroma component, the video coder may modify one or both of the bit depth of the luma component and the bit depth of the chroma component such that the bit depths are equal. The video coder may further apply the color-space transform process in encoding the video data.
TXT	- (Further) controlling elements:(1) whether residual color transform (RCT) is on or off and the particular type of RCT (i.a. among YCoCg, YCoCg-R, modified YCoCg-R) and (2) bit depth of the colour components (RGB and luma chroma), in particular whether they are equal or not