

Title (en)

METHOD AND APPARATUS FOR STORAGE AND SIGNALING OF COMPRESSED POINT CLOUDS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR SPEICHERUNG UND SIGNALISIERUNG VON KOMPRIMIERTEN PUNKTWOLKEN

Title (fr)

PROCÉDÉ ET APPAREIL DE STOCKAGE ET DE SIGNALISATION DE NUAGES DE POINTS COMPRIMÉS

Publication

EP 3821608 A4 20220413 (EN)

Application

EP 19834318 A 20190710

Priority

- US 201862696614 P 20180711
- FI 2019050539 W 20190710

Abstract (en)

[origin: WO2020012073A1] A method, apparatus and computer program product are provided to signal and store compressed point clouds in video encoding. The method, apparatus and computer program product may be utilized in conjunction with a variety of video formats. Relative to encoding of compressed point clouds, the method, apparatus and computer program product access a point cloud compression coded bitstream (40) and cause storage of the point cloud compression coded bitstream (42). The point cloud compression coded bitstream comprises a texture information bitstream, a geometry information bitstream, and an auxiliary metadata bitstream (40). Relative to the decoding of compressed point clouds, the method, apparatus and computer program product receive a point cloud compression coded bitstream and decode the point cloud compression coded bitstream.

IPC 8 full level

H04N 19/597 (2014.01); **G06F 3/01** (2006.01); **G06T 9/00** (2006.01); **H04N 19/70** (2014.01); **H04N 21/234** (2011.01); **H04N 21/81** (2011.01); **H04N 21/854** (2011.01)

CPC (source: EP)

G06T 9/00 (2013.01); **H04N 19/597** (2014.11); **H04N 19/70** (2014.11); **H04N 21/816** (2013.01)

Citation (search report)

- [XII] "CE 2.10 on metadata coding", no. n17633, 19 May 2018 (2018-05-19), XP030024260, Retrieved from the Internet <URL:http://phenix.int-evry.fr/mpeg/doc_end_user/documents/122_San%20Diego/wg11/w17633-PCC-CE2.10.docx> [retrieved on 20180519]
- [XI] IMED BOUAZIZI ET AL: "HLS Considerations for PCC", no. m42671; m42671, 13 April 2018 (2018-04-13), pages 1 - 4, XP030071010, Retrieved from the Internet <URL:http://phenix.int-evry.fr/mpeg/doc_end_user/documents/122_San%20Diego/wg11/m42671-v1-m42671.zip m42671_PCC_HLS_considerations.docx> [retrieved on 20180413]
- [XII] "First idea on Systems technologies for Point Cloud Coding", no. n17675, 30 April 2018 (2018-04-30), XP030024302, Retrieved from the Internet <URL:http://phenix.int-evry.fr/mpeg/doc_end_user/documents/122_San%20Diego/wg11/w17675.zip w17675.docx> [retrieved on 20180430]
- [A] JANGWON LEE (LGE) ET AL: "[OMAF] Proposed solution for sub-picture tracks", no. m42492, 6 April 2018 (2018-04-06), XP030070831, Retrieved from the Internet <URL:http://phenix.int-evry.fr/mpeg/doc_end_user/documents/122_San%20Diego/wg11/m42492-v1-m42492_OMAF_sub-picture_composition.zip m42492_OMAF_sub-picture_composition.docx> [retrieved on 20180406]
- [A] CHAO CAO (TELECOM-SUDPARIS) ET AL: "Proposal for adaptive orientation of projection planes", no. m42560, 18 April 2018 (2018-04-18), XP030261937, Retrieved from the Internet <URL:http://phenix.int-evry.fr/mpeg/doc_end_user/documents/122_San%20Diego/wg11/m42560-v2-m42560-v2-m42560.zip m42560_Proposal for adaptive orientation of projection planes.pptx> [retrieved on 20180418]
- [A] SCHWARZ (NOKIA) S ET AL: "Nokia's response to CfP for Point Cloud Compression (Category 2)", no. m41779, 17 October 2017 (2017-10-17), XP030260370, Retrieved from the Internet <URL:http://phenix.int-evry.fr/mpeg/doc_end_user/documents/120_Macau/wg11/m41779-v2-m41779.zip m41779_PCC_Nokia_CfP_response.pdf> [retrieved on 20171017]
- [A] HANNUKSELA (NOKIA) M M: "[OMAF] On frame packing indications", no. m41460; m41460, 8 October 2017 (2017-10-08), pages 1 - 11, XP030069803, Retrieved from the Internet <URL:http://phenix.int-evry.fr/mpeg/doc_end_user/documents/120_Macau/wg11/m41460-v1-m41460_OMAF_frame_packing_indications.zip m41460_OMAF_frame_packing_indications.docx> [retrieved on 20171008]
- See also references of WO 2020012073A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2020012073 A1 20200116; EP 3821608 A1 20210519; EP 3821608 A4 20220413

DOCDB simple family (application)

FI 2019050539 W 20190710; EP 19834318 A 20190710