

Title (en)

A METHOD, AN APPARATUS AND A COMPUTER PROGRAM PRODUCT FOR VIDEO ENCODING AND VIDEO DECODING

Title (de)

VERFAHREN, VORRICHTUNG UND COMPUTERPROGRAMMPRODUKT ZUR VIDEOCODIERUNG UND VIDEODECODIERUNG

Title (fr)

PROCÉDÉ, APPAREIL ET PRODUIT-PROGRAMME INFORMATIQUE POUR CODAGE VIDÉO ET DÉCODAGE VIDÉO

Publication

EP 4032314 A4 20230719 (EN)

Application

EP 20865714 A 20200826

Priority

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- FI 2020050552 W 20200826

Abstract (en)

[origin: WO2021053261A1] The embodiments relate to methods and apparatuses for coding volumetric video. A method for encoding comprises receiving (610) a video presentation frame, where the video presentation represents a three-dimensional data; generating (620) one or more patches (410) from the video presentation frame, wherein the patches represent different parts of the content of the video presentation frame; determining (420, 630) which patch(es) of the generated one or more patches are to be encrypted (440), wherein the determination is based on a content of the patch; encrypting (440, 640) the determined patches with an encryption method that corresponds to a pre-defined authorization level; and encoding (450, 650) into a bitstream of a corresponding patch, information on the used encryption method.

IPC 8 full level

H04N 21/2347 (2011.01); **G06F 21/10** (2013.01); **G06F 21/62** (2013.01); **H04L 9/14** (2006.01); **H04L 9/32** (2006.01); **H04N 5/913** (2006.01); **H04N 13/161** (2018.01); **H04N 19/167** (2014.01); **H04N 19/46** (2014.01); **H04N 19/597** (2014.01); **H04N 19/70** (2014.01); **H04N 21/2389** (2011.01); **H04N 21/258** (2011.01); **H04N 21/4385** (2011.01); **H04N 21/4405** (2011.01)

CPC (source: EP US)

G06F 21/10 (2013.01 - EP US); **G06F 21/602** (2013.01 - EP); **H04L 9/065** (2013.01 - EP); **H04L 9/088** (2013.01 - EP); **H04N 5/913** (2013.01 - EP); **H04N 19/167** (2014.11 - EP); **H04N 19/46** (2014.11 - EP); **H04N 19/597** (2014.11 - EP); **H04N 21/23897** (2013.01 - EP); **H04N 21/44055** (2013.01 - EP); **H04N 13/161** (2018.05 - EP); **H04N 2005/91364** (2013.01 - EP)

Citation (search report)

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- [Y] ALEXIS MICHAEL TOURAPIS (MAILTO:); ET AL: "[V-PCC][New proposal] Volumetric Tiling Information SEI message for V-PCC", no. m49414, 3 July 2019 (2019-07-03), XP030207719, Retrieved from the Internet <URL:http://phenix.int-evry.fr/mpeg/doc_end_user/documents/127_Gothenburg/wg11/m49414-v1-m49414_SEI_TILES_v3.docx.zip m49414_SEI_TILES_v3.docx> [retrieved on 20190703]
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- See also references of WO 2021053261A1

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