

Title (en)

METHODS FOR ENCODING AND DECODING A DATA FLOW REPRESENTING AN OMNIDIRECTIONAL VIDEO

Title (de)

VERFAHREN ZUM CODIEREN UND DECODIEREN EINES DATENFLUSSES, DER EIN OMNIDIREKTIONALES VIDEO DARSTELLT

Title (fr)

PROCÉDÉS DE CODAGE ET DE DÉCODAGE D'UN FLUX DE DONNÉES REPRÉSENTATIF D'UNE VIDÉO OMNIDIRECTIONNELLE

Publication

**EP 3698546 A1 20200826 (FR)**

Application

**EP 18783032 A 20181012**

Priority

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Abstract (en)

[origin: WO2019076764A1] The invention relates to a method for encoding and to a device for encoding a data flow representing an omnidirectional video, and, correlatively, to a method for decoding and to a device for decoding a data flow representing an omnidirectional video. According to the invention, the data flow representing an omnidirectional video comprises data encoded with at least one base layer representing a 2D or 3D video representing a view of a scene captured by the omnidirectional video, and data encoded with at least one enhancement layer representing the omnidirectional video, the at least one enhancement layer being predictively encoded in relation to the at least one base layer.

IPC 8 full level

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CPC (source: EP US)

**H04N 19/103** (2014.11 - EP); **H04N 19/105** (2014.11 - EP); **H04N 19/172** (2014.11 - EP); **H04N 19/174** (2014.11 - EP US); **H04N 19/176** (2014.11 - EP US); **H04N 19/187** (2014.11 - EP); **H04N 19/30** (2014.11 - EP); **H04N 19/34** (2014.11 - US); **H04N 19/46** (2014.11 - EP); **H04N 19/597** (2014.11 - EP US); **H04N 19/61** (2014.11 - EP); **H04N 19/70** (2014.11 - EP)

Citation (search report)

- [XIY] US 2016156917 A1 20160602 - UGUR KEMAL [FI], et al
- [X] US 2015256838 A1 20150910 - DESHPANDE SACHIN G [US]
- [PX] WO 2018045108 A1 20180308 - VID SCALE INC [US]
- [YA] Y-K WANG (QUALCOMM): "On ERP equations for sample location remapping and sphere coverage signalling", 29. JCT-VC MEETING; 23-10-2017 - 27-10-2017; MACAU; (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/, no. JCTVC-AC0024-v6, 10 October 2017 (2017-10-10), XP030118298
- [A] "Algorithm descriptions of projection format conversion and video quality metrics in 360Lib Version 4", 119. MPEG MEETING; 17-7-2017 - 21-7-2017; TORINO; (MOTION PICTURE EXPERT GROUP OR ISO/IEC JTC1/SC29/WG11), no. N17056, 1 October 2017 (2017-10-01), XP030023717
- [A] H-M OH ET AL: "Omnidirectional fisheye video SEI message", 29. JCT-VC MEETING; 23-10-2017 - 27-10-2017; MACAU; (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/, no. JCTVC-AC0034, 11 October 2017 (2017-10-11), XP030118311
- See also references of WO 2019076764A1

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DOCDB simple family (application)

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