Title (en)
PROCESSING VIDEO PATCHES FOR THREE-DIMENSIONAL CONTENT

Title (de)
VERARBEITUNG VON VIDEOPATCHES FÜR DREIDIMENSIONALE INHALTE

Title (fr)
TRAITEMENT DE CORRECTIFS VIDÉO POUR UN CONTENU TRIDIMENSIONNEL

Publication
EP 3782368 A4 20211208 (EN)

Application
EP 19789175 A 20190412

Priority
• GB 201806370 A 20180419
• FI 2019050297 W 20190412

Abstract (en)
[origin: GB2572996A] A plurality of patches (61, 62) (e.g. volumetric pixels, points of a point cloud or mesh) representing part of a volumetric scene are provided, along with patch visibility information for each patch indicative of directions from which a forward surface of the patch is visible. One or more viewing positions (60) associated with a client device (V) are provided, and the patch(es) are processed dependent on whether the patch visibility information indicates that the forward surface of the patch(es) is visible from the viewing position(s). If rear-facing (e.g. patch 61), a patch may not be rendered, or may not be transmitted to a client. Providing the patches may comprise estimating surface normals from points of a volumetric scene, and grouping together points having similar surface normals to provide a given patch. Metadata (e.g. SEI messages, manifest or descriptor of media content) indicative of the patch visibility may be transmitted to the client device.

IPC 8 full level
H04N 19/597 (2014.01); **G06T 3/00** (2006.01); **G06T 15/20** (2011.01); **G06T 15/40** (2011.01); **G06T 19/00** (2011.01); **H04N 13/178** (2018.01); **H04N 19/167** (2014.01); **H04N 19/17** (2014.01); **H04N 21/218** (2011.01); **H04N 21/2343** (2011.01); **H04N 21/262** (2011.01); **H04N 21/2662** (2011.01); **H04N 21/4402** (2011.01); **H04N 21/462** (2011.01); **H04N 21/482** (2011.01); **H04N 21/81** (2011.01); **H04N 21/845** (2011.01); **H04N 21/854** (2011.01)

CPC (source: EP GB)
G06T 15/04 (2013.01 - EP); **G06T 15/40** (2013.01 - EP GB); **H04N 13/111** (2018.04 - GB); **H04N 13/178** (2018.04 - EP GB); **H04N 13/275** (2018.04 - GB); **H04N 13/388** (2018.04 - EP); **H04N 19/46** (2014.11 - EP); **H04N 19/597** (2014.11 - EP); **H04N 19/70** (2014.11 - EP); **H04N 21/21805** (2013.01 - EP); **H04N 21/2343** (2013.01 - EP); **H04N 21/26258** (2013.01 - EP); **H04N 21/2662** (2013.01 - EP); **H04N 21/4402** (2013.01 - EP); **H04N 21/4621** (2013.01 - EP); **H04N 21/4825** (2013.01 - EP); **H04N 21/816** (2013.01 - EP); **H04N 21/8456** (2013.01 - EP); **H04N 21/85406** (2013.01 - EP); H04N 19/132 (2014.11 - EP); H04N 19/167 (2014.11 - EP); H04N 19/17 (2014.11 - EP)

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