

Title (en)

SYSTEM AND METHOD FOR CREATING PERSISTENT MAPPINGS IN AUGMENTED REALITY

Title (de)

SYSTEM UND VERFAHREN ZUR ERZEUGUNG VON PERSISTENTEN KARTIERUNGEN IN DER ERWEITERTEN REALITÄT

Title (fr)

SYSTÈME ET PROCÉDÉ POUR CRÉER DES MAPPAGES PERSISTANTS DANS UNE RÉALITÉ AUGMENTÉE

Publication

**EP 3959692 A1 20220302 (EN)**

Application

**EP 19832782 A 20191209**

Priority

- US 201916395832 A 20190426
- US 201916396145 A 20190426
- US 2019065235 W 20191209

Abstract (en)

[origin: WO2020219109A1] According to an aspect, a method for creating a three-dimensional map for augmented reality (AR) localization includes obtaining a digital representation of a scene of an AR environment, where the digital representation has been captured by a computing device. The method includes identifying, using a machine learning (ML) model, a region of the digital representation having visual data identified as likely to change, and removing a portion of the digital representation that corresponds to the region of the digital representation to obtain a reduced digital representation, where the reduced digital representation is used to generate a three-dimensional (3D) map for the AR environment.

IPC 8 full level

**G06T 19/00** (2011.01)

CPC (source: EP US)

**G06F 18/24133** (2023.01 - EP); **G06T 7/246** (2017.01 - EP); **G06T 19/006** (2013.01 - EP US); **G06V 10/82** (2022.01 - EP US); **G06V 20/20** (2022.01 - EP US); **G06V 20/70** (2022.01 - EP US); **G06T 2207/20081** (2013.01 - EP); **G06T 2207/20084** (2013.01 - EP)

Citation (examination)

EP 3553752 A1 20191016 - TOSHIBA KK [JP], et al

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Designated extension state (EPC)

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**WO 2020219109 A1 20201029**; CN 113614793 A 20211105; CN 113614793 B 20240823; CN 113614794 A 20211105; CN 113614794 B 20240604; EP 3959691 A1 20220302; EP 3959692 A1 20220302; WO 2020219110 A1 20201029

DOCDB simple family (application)

**US 2019065235 W 20191209**; CN 201980094558 A 20191209; CN 201980094560 A 20191209; EP 19832503 A 20191209; EP 19832782 A 20191209; US 2019065239 W 20191209