

Title (en)  
SYSTEMS AND METHODS FOR THREE-DIMENSIONAL VIDEO GENERATION

Title (de)  
SYSTEME UND VERFAHREN ZUR ERZEUGUNG DREIDIMENSIONALER VIDEOS

Title (fr)  
SYSTÈMES ET PROCÉDÉS DE GÉNÉRATION DE VIDÉO TRIDIMENSIONNELLE

Publication  
**EP 2462539 A1 20120613 (EN)**

Application  
**EP 10807018 A 20100803**

Priority  
• US 23128509 P 20090804  
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Abstract (en)  
[origin: WO2011017310A1] A device for generating a three-dimensional (3D) video based on a two dimensional (2D) image sequence including at least one 2D image includes: an object segmentation and tracking module configured to segment out objects in the 2D image and track the objects in the 2D image sequence; an object classification module configured to classify the objects in the 2D image; an object orientation estimation module configured to estimate orientations of the objects and generate depth information for the 2D image; a scene structure estimation module configured to estimate a scene structure in the 2D image; an object topological relationship determination module configured to determine a topological relationship of the objects in the 2D image; and a depth-image based rendering module configured to generate the 3D video based on the depth information for the 2D image and the topological relationship of the objects.

IPC 8 full level  
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