Title (en)
METHOD FOR IDENTIFYING A SECURITY PATTERN USING AN ARTIFICIAL 3D RECONSTRUCTION

Title (de)
VERFAHREN ZUR IDENTIFIKATION EINES SICHERHEITSMUSTERS ÜBER EINE ARTIFIZIELLE 3-D-REKONSTRUKTION

Title (fr)
PROCÉDÉ D'IDENTIFICATION D'UN MOTIF DE SÉCURITÉ PAR RECONSTRUCTION 3D ARTIFICIELLE

Publication
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Application
**EP 16723256 A 20160421**

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Abstract (en)
[origin: WO2016170041A1] The invention relates to a method for identifying a security pattern by converting two-dimensional (2D) images or a real existing 3D model into an artificial three-dimensional (3D) reconstruction using an analysis of the surface structures, color information (color and/or color intensity), and depth information of the detected security pattern. The method is characterized by the following steps: - generating a height model by determining the surface normals per pixel for the three coordinate axes (x, y, z) from the detected 2D images or the 3D model, - analyzing the pixel intensity of the detected 2D images or the 3D model on the basis of the shadow and the reflection behavior, and - generating the artificial 3D reconstruction from the pixel intensity, wherein a non-reproducible artificial 3D surface is generated according to the pixel intensity or the brightness level. The color information obtained in this manner is incorporated into the depth information of the artificial 3D reconstruction.

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CPC (source: CN EP US)
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