Title (en)
METHOD AND DEVICE FOR COMPUTERIZED INSPECTION OF OBJECTS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR COMPUTERISIERTEN INSPEKTION VON OBJEKTEN

Title (fr)
PROCÉDÉ ET DISPOSITIF POUR L'INSPECTION INFORMATISÉE D'OBJETS

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Application
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Abstract (en)
[origin: WO2009048415A1] For computerized inspection for the determination of possible deviations in shape and size of objects (2) as compared to a reference, a scanner (8) with a digital camera (17) taking 2D-photos and a laser triangulation unit (16, 17) giving 3D-scannings are used, and the scanner (8) and the object (2) are moved in relation to each other during the scanning in order to change the position and/or orientation of the object (2) in relation to the scanner (8). A computer (11) is connected to the scanner, in which computer the reference, a predefined virtual object, e.g. from a CAD-drawing, is stored. The computer (11) has a software adapted on basis of the 2D-photo to determine the outlines of the object (2) in the scanned portion and on basis of the 3D-scanning to generate a three-dimensional photo of the surface within the portion. The computer (11) also has a software for the comparison of the scanned outlines of the object (2) and the three- dimensional surface within the portion with outlines and three-dimensional surface within a corresponding portion of the reference. The computer (11) is programmed to accept or reject the scanned object (2) depending whether possibly determined deviations fall within or outside the predefined tolerance limits.

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