

Title (en)

SYSTEM FOR SCANNING OF THE GEOMETRY OF LARGE OBJECTS

Title (de)

SYSTEM ZUM ABTASTEN DER GEOMETRIE VON GROSSEN OBJEKTEN

Title (fr)

SYSTEME DE BALAYAGE DE LA GEOMETRIE D'OBJETS DE DIMENSIONS IMPORTANTES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0107866A1] System for detection of the surface geometry of an object (6), comprising a sensor unit (1) with apparatus (2) for local, point by point detection of surface geometry, and a robot unit (4) for moving the sensor unit (1), in the sensor unit (1) there is included an optical scanner unit (2) for non-touch probing and detection of the surface geometry of the object, and a position measuring unit (3) designed to determine the position of the sensor unit (1) in a global coordinate system defined by a network (8) of reference points (9) in known positions. A computing unit (5) is provided and designed for collection of data from the scanner unit (2) and the position measuring unit (3) and for transformation of the data from the scanner unit (2) to relate them to the global coordinate system. Further, there is present a method for detection of the surface geometry of an object (6), and a method for calibration of a sensor unit (1).

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